

***Data Quality Assessment Report
for the Post-Decontamination
Characterization of the Ancillary
Equipment Associated with
Tanks WM-184, WM-185, and
WM-186 at the Idaho Nuclear
Technology and Engineering
Center Tank Farm Facility***

September 2004

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Equipment Associated with Tanks WM-184, WM-185,
and WM-186 at the Idaho Nuclear Technology and
Engineering Center Tank Farm Facility**

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ABSTRACT

This report documents the data assessment from samples collected during the cleaning of ancillary equipment (vault sumps, diversion valve boxes, and cooling coils) associated with Tanks WM-184, WM-185, and WM-186 at the Idaho National Engineering and Environmental Laboratory Idaho Nuclear Technology and Engineering Center Tank Farm Facility. The data assessed in this report were generated from the sample analysis of liquids collected following decontamination. Because the samples collected contained less than 15% solids by volume, solids were not analyzed. The data were assessed to determine whether the concentrations of regulated constituents were reduced below the action levels necessary for clean closure. Radionuclide data were compared with an established inventory. The analysis shows all radionuclide activities are less than the inventory values modeled in the performance assessment. The analysis also shows that clean closure action levels were achieved for the chemical constituents in the ancillary equipment. Based on the data analysis, decisions associated with these data can be made with a high degree of confidence.

FOREWORD

Ancillary equipment associated with Tanks WM-184, WM-185, and WM-186 at the Idaho National Engineering and Environmental Laboratory Idaho Nuclear Technology and Engineering Center Tank Farm Facility includes vault sumps, diversion valve boxes, and cooling coils. The sampling and analysis were performed following decontamination as part of the Resource Conservation and Recovery Act (RCRA) clean closure and Department of Energy (DOE) high-level waste tank closure activities underway at the Idaho Nuclear Technology and Engineering Center Tank Farm Facility. The data were compared to three criteria:

- For RCRA clean closure, the data were assessed to determine whether the concentrations of RCRA-regulated constituents were reduced to levels below the action levels specified for clean closure in *Idaho Hazardous Waste Management Act/Resource Conservation and Recovery Act Closure Plan for Idaho Nuclear Technology and Engineering Center Tanks WM-184, WM-185, and WM-186* (DOE-ID 2004). This analysis indicates clean closure action levels were not exceeded in ancillary equipment associated with Tanks WM-184, WM-185, and WM-186. Because the samples collected contained less than 15% solids by volume, solids were not analyzed.
- For DOE high-level waste tank closure, the radionuclide data were compared with the radionuclide concentrations that were used in the *Performance Assessment for the Tank Farm Facility at the Idaho National Engineering and Environmental Laboratory* (DOE-ID 2003). These values were based on sampling data and predicted values from the ORIGEN numerical model. This model is used to predict the radionuclides and relative values in waste streams. An inventory of radionuclides that remain in the tanks after decontamination was prepared for the performance assessment and is used in this document as an indicator of compliance with DOE radionuclide performance objectives.
- The data collected from sampling the post-decontamination, residual liquids from ancillary equipment associated with Tanks WM-184, WM-185, and WM-186 were assessed against the criteria for data quality specified in the *Sampling and Analysis Plan for the Post-Decontamination Characterization of the WM-184, WM-185, and WM-186 Tank Residuals* (INEEL 2003).

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ACRONYMS

AL	action level
ANOVA	analysis of variance
CAS	Chemical Abstract Service
CV	coefficient of variation
<i>df</i>	degree of freedom
DOE	Department of Energy
DQA	data quality assessment
DQO	data quality objective
HWMA	Hazardous Waste Management Act
ICP-MS	inductively coupled plasma-mass spectrometry
IQR	interquartile range
LCL	lower confidence limit
PA	performance assessment
PCBs	polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
SAP	sampling and analysis plan
SVOC	semivolatile organic compound
TFF	Tank Farm Facility
UCL	upper confidence limit
USC	United States Code
VOC	volatile organic compound

Data Quality Assessment Report for the Post-Decontamination Characterization of the Ancillary Equipment Associated with Tanks WM-184, WM-185, and WM-186 at the Idaho Nuclear Technology and Engineering Center Tank Farm Facility

1. INTRODUCTION

This report assesses the quality of data generated from liquid residuals collected following decontamination of the ancillary equipment associated with Tanks WM-184, WM-185, and WM-186 at the Idaho Nuclear Technology and Engineering Center Tank Farm Facility (TFF). The purpose of this data quality assessment (DQA) report is to:

1. Verify that correct assumptions were made in the development of the data quality objectives (DQOs) about the variance of the sample population
2. Confirm that the number of samples collected was adequate
3. Compare the mean concentration (as represented by the upper confidence limit [UCL]) of Resource Conservation and Recovery Act (RCRA) constituents to approved action levels (ALs) listed in the closure plan (DOE-ID 2004)
4. Compare the mean concentrations of radionuclides to the inventory prepared for the performance assessment (PA) (DOE-ID 2003)
5. Determine if the data distribution is normal or log normal to justify the assumption of normality (normal distribution) in the DQOs.

In general, DQA provides a scientific and statistical evaluation of data to determine if the collected data are of the right type, quality, and quantity to support their intended use. The DQA process is designed around the key idea that data quality, as a concept, is only meaningful when it directly relates to the intended use of the data (EPA 2000a). Two primary questions can be answered using the DQA process:

1. Does the quality of the data permit decisions to be made with the desired degree of confidence?
2. How well can the sampling design be expected to perform over a wide range of possible outcomes? That is, can the sampling design strategy be expected to perform well in a similar study with the same degree of confidence even if the actual measurements are different than those obtained in the present study?

The first question addresses the immediate needs of the study. If the assessment shows that the data are of sufficient quality, then the decision-maker can make decisions using unambiguous data with the desired level of confidence (specified during data collection planning). However, if the data do not provide sufficiently strong evidence to support one decision over another, then appropriate data analysis can alert the decision-maker to the degree of ambiguity in the data. If this is the case, an informed decision can be made about how to proceed. For example, based on the data obtained, more data may be

collected or the decision-maker may make a decision knowing there is a greater-than-desirable uncertainty in the decision.

The second question addresses the potential future needs of the study. After the DQA is completed, personnel can determine how well the sampling design may perform at a different location given that different environmental conditions and outcomes may exist. Because environmental conditions vary from location to location, it is important to examine the sampling design over a large range of possible settings to ensure that the design will be adequate in other scenarios.

Evaluation of collected data, referred to as the data life cycle, consists of three steps: planning, implementation, and assessment. The planning phase consists of documenting the data needs and plans for data collection using the DQO process (EPA 2000b). The DQOs define the qualitative and quantitative criteria for specifying the sampling procedure and establish the desired level of confidence for decision-making. The DQOs for this project are documented in the associated sampling and analysis plan (SAP) (INEEL 2003). The implementation phase consists of collecting the necessary data according to the SAP. Data assessment consists of both data validation (to make sure that all sampling and analysis protocols were followed) and the use of the validated data set (to determine if the data quality is satisfactory for making the decisions specified in the SAP).

The steps of the DQA process are:

1. Review the DQOs and sampling design
2. Conduct a preliminary data review
3. Select a statistical test
4. Verify the assumptions of the selected test
5. Draw conclusions from the data.

These steps are discussed in the following sections.

2. REVIEW OF THE DATA QUALITY OBJECTIVES AND SAMPLING DESIGN

The DQOs clearly define the principle questions to be addressed and develop the approach that will be taken to resolve the questions. The DQOs consist of developing a problem statement and a decision statement, defining the decision inputs, defining study boundaries, developing a decision rule, establishing decision error limits, and optimizing the design. Data quality objectives were developed for both the tanks and the ancillary equipment simultaneously. The original intent was to pool the samples obtained from the vault sumps and diversion valve boxes so that formal statistical tests could be performed on the data. However, the investigation of the data associated with the WM-182 and WM-183 ancillary equipment showed that these samples come from separate populations and cannot be pooled together for analysis (ICP 2004a). Of the three tanks WM-184, WM-185, and WM-186, Tank WM-185 is the only one that has cooling coils. Therefore, statistical analysis could only be performed on the WM-185 cooling coil data. The DQOs are summarized below.

1. Problem Statement: Demonstrate that tank decontamination activities have resulted in closure performance objectives being met.
2. Decision Statement: Determine if decontamination of the TFF tank systems has resulted in concentrations of constituents or properties (i.e., pH) of concern in the residuals remaining in the TFF system components being below closure performance standards; if not, further decontamination may be necessary or the Hazardous Waste Management Act (HWMA) (State of Idaho 1983)/RCRA (42 United States Code [USC] 6901 et seq., 1976) landfill standards for closure must be met. Additionally, Department of Energy (DOE) requirements must be met to close the tanks in place.
3. Decision Inputs: Concentrations of hazardous constituents and radionuclides present in ancillary equipment after decontamination.
4. Study Boundaries:
 - a. Spatial Boundaries: Residual liquids collected from Tanks WM-184, WM-185, and WM-186 ancillary equipment following decontamination. The ancillary equipment associated with Tanks WM-184, WM-185, and WM-186 includes the vault sumps, the diversion valve boxes, and the cooling coils inside Tank WM-185. The data assessed in this report were generated from the sample analysis of liquids that were collected following decontamination of the cited ancillary equipment. Since the samples collected contained less than 15% solids by volume, solids were not analyzed. No data from the sample analysis of residual liquids from the tanks are analyzed in this report. Data assessment of sample analysis of tank residuals has been provided in separate reports (ICP 2004b, 2004c, 2004d).
 - b. Temporal Boundaries: From the onset of decontamination to completion of decontamination. The length of time can vary between different units. Decisions made concerning achievement of closure performance standards will apply for a minimum of 100 years of DOE institutional control.
 - c. Scale of Decision-Making: The assumptions made in developing the PA (DOE-ID 2003) will specify the scale of decision-making.
 - d. Practical Constraints: The volume of sample collected from each of the sumps and the valve boxes is restricted by the limited amount of residuals that can be obtained from these areas.

5. Decision Rule: The parameter of interest is the mean concentration of the constituents of concern within the study boundaries. The decision rules are:
- If the true mean concentration of any applicable hazardous waste constituent detected from any piece of equipment is greater than or equal to the maximum concentration of contaminants for the toxicity characteristic listed in 40 *Code of Federal Regulations* 261.24 (2004), or If the true mean pH of TFF residuals collected from any individual piece of equipment exhibit the characteristic of corrosivity, then either additional decontamination steps will be undertaken or closure to HWMA/RCRA landfill standards will be considered. (It is known that the cooling coils contained chromium as a corrosion inhibitor and that the contents of the cooling coils never came in contact with the tank waste. Therefore, only chromium is of interest in the cooling coil rinsates, and only chromium data from the analyses of the cooling coil rinsates were used in assessing whether or not TFF cooling coil residuals meet the HWMA/RCRA clean-closure ALs).*
 - If the true mean concentration of any hazardous constituent detected in total constituent analyses of the TFF residuals collected from statistically similar populations (i.e., sample locations) is greater than the AL specified in the closure plan, then additional decontamination steps may be undertaken. Closure to HWMA/RCRA landfill standards will be considered at final closure of the TFF.*
 - If the concentrations of hazardous constituents indicate that the closure performance standards have been met, then the TFF will be closed under a HWMA/RCRA clean closure.*
6. Decision Error Limits: The outputs for the decision error limits are the null and alternative hypotheses and a quantification of the allowable error rates. The null hypothesis is “The concentration of at least one hazardous or radioactive constituent in TFF residuals following decontamination is equal to or exceeds ALs.” Conversely, the alternative hypothesis is “The concentrations of all hazardous or radioactive constituents in TFF residuals following decontamination are less than the specified ALs.” The lower boundary of the gray region (Δ) is set at 80% of the AL for all constituents of concern. Using the stated null hypothesis, the upper boundary of the gray region is always the constituent-specific AL. For pH, the gray region is bounded on one side by 2.0 and 12.5 (the ALs) and on the other side by 2.1 and 12.4, respectively. In the case of acidic conditions (low pH), the “lower boundary” of the gray region is actually a pH value greater than the action limit because the “lower boundary” of the gray region is always in a direction away from the action limit that would result in rejection of the null hypothesis if the true mean value was equal to that value. That is, the gray region is that range of values where controlling false-negative decision error is deemed unimportant relative to the cost of controlling that error. The chance of a false-positive decision error (α) and the chance of a false-negative decision error (β) will both be set at 5%. Since the number of samples obtained from the sumps, and valve boxes is too small to perform a statistical test, formal statistical hypothesis testing can be done only on the cooling coil data. Therefore, the above outputs apply only to the cooling coils since such a definition would be inappropriate for the other equipment covered in this report.
7. Design Optimization: A simple random sampling method was used to obtain samples. The standard deviation (σ) was estimated to be 10% of the AL. The validity of this assumption is assessed later in this DQA report. Given the chosen α , β , and Δ in conjunction with the estimated value for σ , a sample size (n) of 5 was selected using Equation (1):

$$n = \frac{(z_{1-\alpha} + z_{1-\beta})^2 \sigma^2}{\Delta^2} + \frac{1}{2} z_{1-\alpha}^2 \quad (1)$$

where

- n = the appropriate number of samples to collect to satisfy the DQOs
- z_x = the z value for the x^{th} quantile of the standard normal distribution (from statistical tables)
- α = false-positive rate (5% or 0.05)
- β = false-negative rate (5% or 0.05)
- σ = estimated standard deviation of the population
- Δ = minimum detectable difference (the difference between the AL and the value at which the decision-maker wants to specify a false-negative decision error rate; in this case, Δ is 20% of the constituent-specific AL).

Equation (2) shows the solution of this formula for the WM-185 cooling coils sampling and analysis activity:

$$n = \frac{(1.645 + 1.645)^2 (10)^2}{(20)^2} + \frac{1}{2} (1.645)^2 = 4.06 \quad (2)$$

Based on the results of Equation (2), five samples of liquids from the WM-185 cooling coils following decontamination were collected for the applicable analyses. However, sampling for the vault sumps and valve boxes was controlled by practical constraints. Six samples of vault sumps (two in WM-186, two in WM-185, and two in WM-184) and two samples of diversion valve boxes (C-14 and C-19) were collected.

3. PRELIMINARY DATA REVIEW

The purpose of the preliminary data review is to examine the data using graphical methods and numerical summaries to gain familiarity with the data and achieve an understanding of the “structure” of the data. A preliminary data review should be performed whenever data are used, regardless of the purpose of the data. This type of examination allows the limitations of the data to be identified and the proper approach for data analysis to be determined. It is important to note that the cooling coil data are the only data of sufficient quantity to use the methods that follow. The data from vault sumps and valve boxes are examined in tabular format because the following methods cannot be applied.

The two main approaches to a preliminary data review are: (1) calculation of basic statistical quantities (or summary statistics) and (2) graphical representations of the data. Appendix A of this report provides the graphical representations of cooling coil data from Tank WM-185. Neither Tank WM-184 nor WM-186 has cooling coils. The calculated summary statistics will be discussed in this section, and the graphical review of the data will be discussed in Section 8 when the distribution of the cooling coil data is assessed.

The summary statistics calculated for the detected constituents from the WM-185 cooling coils provide information regarding the measures of center (mean and median) and measures of spread (standard deviation, coefficient of variation [CV], interquartile range [IQR], and range). One measure of primary interest is the center of the data. The average (\bar{x}), or the mean, is the most commonly used measure of the central tendency of the data. However, it can be heavily influenced by outliers and by asymmetric data. The mean is calculated using Equation (3):

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n} \quad (3)$$

where

\bar{x} = mean

n = number of observations

x_i = i^{th} observation.

The median is the preferred measure of the center of the data if outliers are present in the data or if the data are skewed. The median is the observation such that 50% of the data lie below the median and 50% of the data lie above the median. If the data are perfectly symmetric, the mean and the median will be equal to each other.

Another quantity of interest is the spread of the data. The standard deviation (s) is the most commonly used measure of spread. One reason for this is that it is fairly easy to interpret and is a key measure that is used in many other statistical methods. Because it is calculated using the average, it is also sensitive to outliers and to data that are not symmetric. The standard deviation is calculated using Equation (4):

$$s = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}} \quad (4)$$

where

s = standard deviation

n = number of observations

x_i = i^{th} observation

\bar{x} = mean of the observations.

The CV was also calculated for each detected analyte for which a sufficient number of samples for computation existed. The CV is a relative measure of variation. That is, it is a measure of the standard deviation relative to the mean, expressed as a percentage. This measure provides a way to more directly compare the standard deviations of two different data sets that may otherwise not be directly comparable. However, it is important to note that the mean of the data may be very close to zero or very far away from zero and the spread may be independent from the distance of the mean from zero. Therefore, no firm guidelines have been established for interpreting the CV. The formula for calculating the CV is:

$$CV = \frac{s}{\bar{x}} \times 100\% \quad (5)$$

where

s = standard deviation

\bar{x} = mean of the observations.

The IQR is a measure of spread that is not influenced by outliers. It is calculated by subtracting the first quartile from the third quartile. The first quartile is the 25th percentile of the data and the third quartile is the 75th percentile of the data. The IQR is a preferred measure of spread when extreme outliers exist in the data. Otherwise, the standard deviation is the preferred measure of spread.

The range, another measure of spread in the data, is calculated by subtracting the smallest value in the data from the largest value. It can be a valuable piece of information in characterizing the spread of the data but can be deceptively large if the data contain any outliers. Therefore, the data should always be examined for outliers when the range is used as a summary statistic.

The five-number summary was calculated for pH and chromium in the rinsates collected from the WM-185 cooling coils. No radionuclides were detected in the rinsates collected from the WM-185 cooling coils; therefore, a five-number summary was not performed for these analytes. The five-number summary is a presentation of the minimum value, the first quartile, the median, the third quartile, and the maximum value of the data. This summary provides non-parametric information about the general spread and pattern of the data.

It is difficult to read a table of numerical summary statistics and identify the degree of symmetry or normality of the data. Graphical representations of the data include boxplots and normal-quantile plots. Boxplots are a way of graphically viewing the five-number summary. The plot consists of a central box

with a line or other mark inside of the box. Two lines come out of the ends of the box in either direction. The line, or mark, inside the box represents the median, the edges of the box represent the two quartiles, and the extreme ends of the lines represent the largest and smallest observations within $1.5 \times \text{IQR}$ from the box, which represent the minimum and maximum values when the data set contains only five observations.

This type of plot allows for a quick and comprehensive analysis of the symmetry of the data. It can be easily determined if the data are symmetric, right-skewed, or left-skewed. Right-skewed data have a lengthened tail on the higher values of the distribution. This tail pulls the mean toward it, causing the mean to be high relative to the center of the data. This makes it more likely to declare that further decontamination is needed when, in fact, decontamination efforts have been sufficient. Left-skewed data have a lengthened tail on the lower values of the distribution. This tail pulls the mean toward it causing the mean to be lower than the center of the data. Left-skewed data will cause the UCL to be low-biased making it more likely to show the decontamination efforts have been successful for that analyte when, in fact, the concentration of that analyte exceeds the AL.

The normal-quantile plot is a plot that is used to determine if the data follow a normal distribution. If the data follow a normal distribution then the points on the graph will lie along a straight line. Any deviations from a straight line are indicative of deviations from normality. If the data veer away from the line at one end of the line or form a “U” shape, then the data are asymmetric. If the data veer away from the line at both ends in an “S” shape, then the tails of the distribution are either too heavy or too light to assume a normal distribution. A point that is far away from the other data at either end of the plot indicates there might be an outlier in the data. It is important to note that no real world data set is perfectly normal so a certain amount of deviation from the line is to be expected, even in data that are sufficiently normal for parametric statistical analysis.

A formal preliminary data analysis, as outlined above, was not performed on the data from the vault sumps or valve boxes because too few data points are available to perform the necessary calculations or to construct meaningful graphs. A formal preliminary data analysis was conducted for the WM-185 cooling coil data, and the graphical representations are shown in Appendix A to aid the data user in assessing the symmetry and normality of the data collected.

Each type of analyte (i.e., metals, anions, organic constituents, pH, and radionuclides) is discussed separately in Sections 7 and 8, as applicable. The impact of laboratory performance on the data quality is discussed, and detected analytes are examined statistically.

4. STATISTICAL TEST SELECTION

Once the preliminary data review has been completed, an appropriate statistical hypothesis test may be selected to answer the question(s) for which the data were collected. Because each statistical hypothesis test requires the data to be of sufficient quality and quantity, the data are analyzed to determine whether the assumptions of the desired test(s) are met.

One of the primary requirements of many hypothesis tests is that the distribution of the sample mean follows a normal distribution. Tests that require the assumption of normality are generally more efficient than non-parametric tests (i.e., tests that do not require the data to follow a specific distribution). That is, a test that requires the sample mean to have a normal distribution can provide more accurate and reliable answers with fewer data points than a test that does not require the data to conform to a specific distribution. If the data have a normal distribution, then the sample mean will also have a normal distribution. Data not demonstrating a normal distribution can be transformed and used if the transformed data are normally distributed. However, if the data do not have a normal distribution and cannot be transformed to achieve normality, the sample mean may still have a normal distribution. The Central-Limit Theorem states that the distribution of the sample mean will be normal, regardless of the distribution of the data, if the sample size is sufficiently large. The more the data deviate from the normal distribution, the larger the sample size must be to ensure that the distribution of the sample mean is normal. Bootstrapping is a simulation technique that can be used to assess the distribution of the sample mean. If data are not normal in distribution and normality cannot be achieved through transformation, bootstrapping will be used to assess the distribution of the sample mean.

Non-parametric tests are most appropriate if the sample mean does not follow a normal distribution and an appropriate transformation cannot be found. Although they do not require the data to exhibit a normal distribution, most non-parametric hypothesis tests also have assumptions that must be met. One of the most common assumptions for a one-sample non-parametric test is that the data have a symmetric distribution. The assumptions of a selected hypothesis test, whether parametric or non-parametric, must be verified before the test is performed on the data.

The primary questions to be answered in relation to the post-decontamination contents of ancillary equipment for Tanks WM-184, WM-185, and WM-186 are:

- Does the mean concentration of any constituent of concern exceed the specified AL or radionuclide inventory?
- Do the data support the assumptions of variance (standard deviation squared) and normal distribution?

The appropriate test to answer the first question compares the sample mean to a constituent-specific AL. Three primary tests are appropriate for answering this type of question: the one-sample *z*-test, Student's one-sample *t*-test, and the Wilcoxon signed rank test.

The *z*-test requires: (a) knowledge of the population standard deviation (σ), and (b) that the sample mean follows a normal distribution. Because the population standard deviation for each constituent concentration in the post-decontamination contents is not known, the *z*-test will not be considered further. The *t*-test allows the use of the sample standard deviation (s), which is an estimate of σ . The *t*-test also requires that the sample mean follows an approximate normal distribution. It is important to note that if the data follow a normal distribution, the sample mean will also have a normal distribution. However, if the data do not follow a normal distribution, the sample mean will still follow a normal distribution if the sample size is sufficiently large (as shown by the Central-Limit Theorem). The Wilcoxon signed rank test

is a non-parametric test that compares a sample mean to an AL but does not require the data to follow a normal distribution. The primary assumption for this test is that the data are symmetric. If the data are analyzed and found to be neither normally distributed nor symmetric, the data may be transformed. Data are transformed by performing the same operation on each data point (such as taking the natural logarithm of each observation). If the transformed data have a normal distribution or are symmetric, then the appropriate test can be performed on the transformed data. If the UCL of an analyte for which the data have been transformed is desired, it can be calculated using the transformed data. The AL can then be transformed using the same function and directly compared to the UCL within the transformed space. If an appropriate transformation cannot be found to achieve normality in the data, bootstrapping will be done to determine if the sample mean follows a normal distribution despite the non-normality of the data.

Because the *t*-test allows use of the sample standard deviation (*s*) and is a very powerful test for small data sets, the *t*-test was chosen as the most desirable means for testing the null hypothesis. After selecting a statistical test, it is necessary to verify the assumptions of the test selected. These assumptions are examined in Section 5.

5. VERIFICATION OF THE ASSUMPTIONS FOR THE SELECTED HYPOTHESIS TEST

This section examines the underlying assumptions of the statistical hypothesis test in light of the data collected. Both parametric and non-parametric tests require that the samples are independent of each other and this assumption should be verified if the sampling points were not able to be randomly selected. In addition, to select the appropriate test, the distributions of the data obtained for each analyte need to be evaluated. Parametric tests, which require the data to be normally distributed, can provide more accurate and reliable answers with fewer data points than non-parametric tests, and therefore, are the preferred tests. Consequently, it must first be determined if the data follow a normal distribution or if they can be transformed to follow a normal distribution. This is done using graphical methods such as histograms and normal-quantile plots. Statistical tests, such as the Shapiro-Wilk test or the χ^2 test for distributions can be used to determine if the data follow a normal distribution, but each has limitations. If the data set is large, even data that are very close to normal in distribution may not pass the test. With a small number of data points, it is difficult for distributional tests to detect deviations from normality in the data.

In the analysis of the rinsate data from the cooling coils associated with Tank WM-185, graphical methods and the Shapiro-Wilk test were used to assess normality, where appropriate. Boxplots of the data were prepared using S-Plus 2000 (Insightful Corporation 2000). Analyse-It software (Analyse-It 2003) was used to perform the Shapiro-Wilk test calculations and to construct the normal-quantile plots. Because no more than five samples were taken from any system, histograms were not very informative. Normal-quantile plots were the primary graphical method used to evaluate whether the data exhibit a normal distribution. These plots are presented in Appendix A of this report. The assessment of normality of the data is discussed in Section 7.

Since the primary objective of this DQA analysis is to determine if the mean concentration of a specified analyte is less than its associated AL, the following criteria have been developed in dealing with deviations from normality:

- If the Shapiro-Wilk test indicates that the data are normally distributed at the $\alpha = 0.05$ level and the summary statistics and plots indicate that the data are symmetric, then the *t*-test will be performed on the raw data.
- If the Shapiro-Wilk test conclusively shows that the data are normally distributed (the *p*-value is comfortably greater than 0.05), but the boxplot and other summary statistics indicate that the data might be right-skewed, then the raw data will be used for the *t*-test. However, if the data in this situation fail the Shapiro-Wilk test, a transformation that can make the data closer to normal in distribution will be sought and the test will be repeated.
- If the *p*-value for the Shapiro-Wilk test is close to or less than 0.05 and the data are left-skewed, then a transformation will be sought to bring the distribution into the acceptable range of normality.
- If the data are right-skewed and the *p*-value for the Shapiro-Wilk test is less than 0.05, indicating that the data are non-normal, then an appropriate transformation will be sought for the data.
- If an appropriate transformation cannot be found then bootstrapping will be used to compute a non-parametric 95% UCL of the data for comparison against the AL. This will also be done if the data are left-skewed and a suitable transformation cannot be found.

The results of the Shapiro-Wilk test are reported for all of the reported results as well as for any successful transformations. Results for unsuccessful transformations are not reported because many transformations were attempted for each analyte that exhibited non-normality. It is also important to note that the Wilcoxon signed rank test was not considered for data that exhibited non-normality because these data were also asymmetric. It is possible to determine how the type of asymmetry will affect a *t*-test, but it is not as clear how asymmetry will affect the results of the Wilcoxon signed rank test.

One of the primary assumptions for performing the *t*-test is that the samples are independent from the location from which they were collected. In the WM-184, WM-185, and WM-186 sump vaults, one rinsate sample was collected for each of the six vault sums and two diversion valve boxes. It was shown in the WM-182 and WM-183 DQA (ICP 2004a) that sample results were dependent on which sump or vault box from which they were collected. Therefore, data from the sums and vault boxes cannot be pooled for analysis. It is not necessary, or appropriate, to repeat the analysis on the WM-184, WM-185, and WM-186 data since the dependence has already been proven. Thus, it will not be repeated in this document.

6. IMPLEMENTATION OF THE STATISTICAL TEST

If the preliminary data analysis and the evaluation of test assumptions indicate that the *t*-test may be appropriately applied to determine if the mean concentration of any constituent of concern exceeds its specified AL, then the test will be applied to the data. It is important to note that distributional assumptions will only be addressed for the cooling coil data since none of the other equipment has data of sufficient quantity to assess distribution.

The one-sample *t*-test is the statistical hypothesis test that was selected for use on the observed data (provided the assumptions of the test are met). This test compares the sample mean with the AL to determine the likelihood that the population mean exceeds the AL. This test can be implemented in several ways. The traditional method is to compute a *t*-statistic from the observed data and the AL and then use it to determine the appropriate *p*-value. The *p*-value is the probability that a sample mean as small, or smaller, than the one observed is seen if further decontamination is necessary. Therefore, the smaller the *p*-value is, the less likely it is that the contamination in the ancillary equipment exceeds the AL. Another way to run the *t*-test is to compare the UCL to the AL. If the UCL is less than the AL then it can be concluded that sufficient decontamination activities have been performed. The UCL comparison is the method that was used in this document.

The UCL of the sample mean is calculated using Equation (6):

$$UCL = \bar{x} + t_{1-\alpha, df}^* \frac{s}{\sqrt{n}} \quad (6)$$

where

\bar{x} = sample mean.

$t_{1-\alpha, df}^*$ = *t*-statistic for the confidence level, $(1 - \alpha)*100\%$, and degree of freedom, *df*. In this case, the confidence is $(1 - 0.05)*100\% = 95\%$ and the *dfs* are $n - 1 = 4$. From statistical tables, this corresponds to a value of 2.132 (or 2.776 for pH as explained below).

s = sample standard deviation.

n = number of samples taken.

The 95% LCL is also of importance to analyzing the pH. Because the pH has ALs for both high pH and low pH, it is necessary to determine if the pH is less than the LCL. Because both the LCL and the UCL are important, the *t*-value for the LCL and UCL will be determined with $\alpha/2$ instead of α to ensure that the total probability of a false-positive decision error occurring is α rather than $2*\alpha$. The LCL is compared to a pH of 2 to ensure that the true mean is greater than 2 at the specified degree of confidence. The LCL is calculated using Equation (7):

$$LCL = \bar{x} - t_{1-\alpha/2, df}^* \frac{s}{\sqrt{n}} \quad (7)$$

where

\bar{x} = sample mean.

$t_{1-\alpha/2, df}^*$ = t -statistic for degree of confidence, $(1 - \alpha/2) * 100\%$, and degree of freedom, df . In this case, the confidence is $(1 - 0.025) * 100\% = 95\%$ and the dfs are $n - 1 = 4$. Because the LCL and the UCL are being compared to an AL, $\alpha/2 = 0.025$ is used to determine the appropriate t -value. From statistical tables, this corresponds to a value of 2.776.

s = sample standard deviation.

n = number of samples taken.

The UCL is used to estimate the largest likely value of the population mean based on the observed data. The ALs and decisions about whether or not the ALs may have been exceeded for each of the detected constituents will be presented in the following sections. The LCL is also presented for pH to ensure that neither AL was exceeded.

If the data are not normal in distribution then bootstrapping will be used to compute a 95% UCL for the data. Bootstrapping is a technique in the family of Monte Carlo methods that resamples the observed data to obtain more information about the population. In the case of the rinsate data, the observed data for the analyte in question will be sampled, with replacement, five times. A sample mean will then be computed from this “new” data set. This process will be repeated 1,000 times to obtain 1,000 sample means. The 95% UCL of the data is the 95th percentile of the 1,000 sample means generated by the bootstrap method. This UCL can be directly compared to the action or inventory level to perform the appropriate statistical test (for further details on bootstrapping see An Introduction to the Bootstrap [Efron and Tibshirani 1994]).

No specific regulatory thresholds relative to the activity (i.e., concentrations) exist for the radionuclides left in any one tank after decontamination. Rather, the total inventory of radionuclides remaining in all closed components of the TFF will be evaluated following completion of the TFF decontamination efforts. The PA (DOE ID 2003) conducted to address the DOE Order 435.1 (2001) closure requirements provides an estimate of acceptable radionuclide concentrations in the liquids remaining in each tank following decontamination. While these modeled levels are not the basis for a decision such as continuing to clean a tank, the modeled values required to meet DOE closure standards can be compared with the levels achieved through decontamination efforts. Because of this, hypothesis testing is not required to make decisions concerning whether decontamination of Tank WM-184 may cease; however, hypothesis testing using the modeled value as the AL provides information on the decontamination effort for the radionuclides. Section 7.5 provides the UCLs for radionuclides and compares them with the PA modeled inventory (DOE-ID 2003).

7. SUMMARY OF DATA ANALYSIS FOR WM-185 COOLING COILS

7.1 Analysis of Metals in the Rinsate from Tank WM-185 Cooling Coils

7.1.1 Preliminary Data Analysis for the Metals

The preliminary data analysis consists of several statistical quantities of interest and the five-number summary for the metals. The measures of central tendency and spread for chromium are listed in Table 1. Table 2 provides the five-number summary for chromium. Boxplots and normal-quantile plots for chromium are shown in Appendix A. Laboratory results and associated validation flags for WM-185 cooling coil data are presented in Appendix B.

Table 1. Measures of central tendency and spread for metals in the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Mean ($\mu\text{g/L}$)	Median ($\mu\text{g/L}$)	Standard Deviation ($\mu\text{g/L}$)	Coefficient of Variation (%)	Interquartile Range ($\mu\text{g/L}$)	Range ($\mu\text{g/L}$)
Chromium	488	456	262	53.7	185	714

Table 2. Five-number summary for metals in the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Minimum Value ($\mu\text{g/L}$)	First Quartile ($\mu\text{g/L}$)	Median ($\mu\text{g/L}$)	Third Quartile ($\mu\text{g/L}$)	Maximum Value ($\mu\text{g/L}$)
Chromium	160	383	456	568	874

7.1.2 Verification of Statistical Test Assumptions for the Metals Data

Two of the primary assumptions made for performing the one-sample *t*-test with the desired degree of confidence are that the sample mean follows a normal distribution and that the standard deviation is less than 10% of the AL. Chromium data were analyzed using normal-quantile plots and the Shapiro-Wilk test to assess the normality of the data. Table 3 contains the results of the Shapiro-Wilk test for the chromium. The plots and the Shapiro-Wilk W test show that the data are sufficiently normal in distribution to perform a *t*-test on the chromium data. The assumption that the standard deviation was less than 10% of the AL was made in order to determine the appropriate sample size. The results listed in Table 4 show that this assumption was not met. Algebraically solving Equation (1) for β when the standard deviation is equal to 29% shows that the true β is equal to 37.15% rather than the estimated 5%. Although the actual value is much larger than the estimated value, the discrepancy poses a problem only if the test shows that chromium values are above the AL. Since the *t*-test shows that the AL is met, this should not present a problem from a statistical or a regulatory point of view.

Table 3. Results of the Shapiro-Wilk test for metals in the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Coefficient	<i>p</i> -value	Non-normal?
Chromium	0.9802	0.9355	No

Table 4. Verification of the standard deviation assumption for metals in the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Standard Deviation ($\mu\text{g/L}$)	Action Level ($\mu\text{g/L}$)	Percentage
Chromium	262	900	29%

7.1.2.1 Implementation of the Statistical Test for the Metals Data. Results from the previous subsections indicate that the *t*-test is an appropriate method for analyzing the metals data. It can be seen from the results listed in Table 5 that the chromium levels are below the AL. Therefore, it can be seen that closure performance criteria have been met for all metals of concern in the rinsates from the cooling coils associated with Tank WM-185.

Table 5. Summary of post-decontamination concentrations of metal constituents in the rinsates from the cooling coils associated with Tank WM-185.

Constituent	Mean Concentration	95% UCL	Units	<i>t</i> -value	Action Level	Action Level Exceeded?
Chromium	488	738	$\mu\text{g/L}$	2.132	900	No

7.2 Analysis of pH in the Rinsate from Tank WM-185 Cooling Coils

7.2.1 Preliminary Data Analysis for pH

The preliminary data analysis consists of several statistical quantities of interest and the five-number summary for pH. Measures of central tendency and spread for pH are listed in Table 6. Table 7 provides the five-number summary for pH. The boxplot and normal-quantile plot for pH can be found in Appendix A. Plots show that the data appear to be symmetric, but not normal in distribution. The distribution of pH will be discussed further in the following section. Laboratory results and associated validation flags for pH data for WM-185 cooling coils are listed in Appendix B.

Table 6. Measures of central tendency and spread for the pH of the rinsate from the cooling coils associated with Tank WM-185.

Analyte	Mean	Median	Standard Deviation	Coefficient of Variation (%)	Interquartile Range	Range
pH	6.6	6.6	0.15	2.3	0.30	0.30

Table 7. Five-number summary for the pH of the rinsate from the cooling coils associated with Tank WM-185.

Analyte	Minimum Value	First Quartile	Median	Third Quartile	Maximum Value
pH	6.5	6.5	6.6	6.8	6.8

7.2.1.1 Verification of Statistical Test Assumptions for the pH Data. Two of the primary assumptions in performing the *t*-test on the pH data with 95% confidence are that the sample mean follows a normal distribution and that the standard deviation is no more than 10% of the AL. Results of the Shapiro-Wilk test show that the data are sufficiently normal in distribution to perform the *t*-test despite evidence of non-normality seen in the boxplot. Table 8 contains the results of the Shapiro-Wilk test for pH.

Table 9 contains the results of the standard deviation assumption. However, it is important to note that because a neutral pH is expressed by a value of 7.0 rather than 0, the absolute value of the difference between the AL and 7.0 was used for comparison. Therefore, the AL used to assess the standard deviation assumption is 5.0 rather than 2.0 or 12.5. Because the pH data are acidic, 5.0 (rather than 5.5) is used to compare against the standard deviation. If the pH data were basic, the standard deviation would be compared to 5.5. It can be seen that the assumption that the standard deviation is no more than 10% of the AL was comfortably met. Therefore, a *t*-test can be performed on the pH data with the desired degree of confidence.

Table 8. Results of the Shapiro-Wilk test for the pH of the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Coefficient	<i>p</i> -value	Non-normal?
pH	0.8030	0.0857	No

Table 9. Verification of the standard deviation assumption for the pH of the rinsates from the cooling coils associated with Tank WM-185.

Analyte	Standard Deviation	Action Level	Percentage
pH	0.15	5.0	3%

7.2.1.2 Implementation of the Statistical Test for the pH Data. Results from the previous subsections indicate that it is appropriate to perform the *t*-test on the pH data. It can be seen from the results listed in Table 10 that the pH level is not near either of the ALs. Therefore, it can be seen that closure performance criteria has been met for the pH of the rinsates from the cooling coils associated with Tank WM-185.

Table 10. Summary of post-decontamination measurements of the pH in the rinsates from the cooling coils associated with Tank WM-185.

Constituent	Mean Concentration	95% LCL	95% UCL	Lower Action Level	Upper Action Level	Action Level Exceeded?
pH	6.6	6.4	6.8	2.0	12.5	No

7.2.2 Conclusions

Five samples of the final decontamination rinsate were taken from the Tank WM-185 cooling coils. Samples were analyzed for constituents and properties (i.e., pH) of concern as well as gamma-emitting radionuclides. The pH was within the regulatory bounds specified in the closure plan. Chromium was the only constituent that was detected. All measurements were well below the AL. Thus, it can be concluded that the closure performance criteria has been met with respect to the cooling coils for Tank WM-185.

8. SUMMARY OF DATA ANALYSIS FOR THE WM-184, WM-185, AND WM-186 VAULT SUMPS AND C-14 AND C-19 DIVERSION VALVE BOXES

This section provides the statistical analysis that was performed on the data associated with the WM-184, WM-185, and WM-186 vault sums. One sample was collected from each of the six vault sums and one sample each was collected from the C-14 and C-19 diversion valve boxes, making a total of eight samples collectively referred to as the vault sums.

Based on the investigation of the data associated with the WM-182 and WM-183 vault sums and diversion valve boxes (ICP 2004a), ancillary equipment samples come from separate populations and cannot be pooled together for analysis. Therefore, the data are most appropriately analyzed in tabular format. The data are presented in two types of formats. First, the data for each sump are presented by analyte and with its associated AL so that the results between the sums can be compared to each other and to the ALs. The second format is similar but shows the observed value expressed as a percent of the AL. The results are presented in pertinent subsections that follow. It is important to note that all constituents of concern were analyzed. However, only analytes that were detected in at least one of the eight samples are presented in the following subsections. Also, all analytical data were validated in accordance with technical procedures, and data validation flags were assigned based on laboratory performance in quality control analyses. Data flagged during validation may still be useful for making project decisions. When appropriate, discrepancies in the quality control analyses that were noted in the validation process are addressed in the following subsections. All reported results and the corresponding validation flags for the WM-184, WM-185, and WM-186 vault sums and C-14 and C-19 valve boxes are provided in Appendix C.

8.1 Metals Results in the Vault Sumps

Metals data were validated in accordance with technical procedures and data validation flags were assigned based on laboratory performance in quality control analyses (Portage Environmental, Inc. 2004d, 2004e, 2004f, 2004g, 2004h, 2004i). Minor discrepancies were noted and data were flagged as estimated values; however, the impact to data usability should be minimal. Analytes which were reported in samples at concentrations similar to associated blanks were considered to be undetected and assigned “U”-flags. All reported metals data and validation flags are shown in Appendix C.

Table 11 presents the reported results the metals data obtained from the vault sums and Table 12 presents the data as percentage of the AL. It can be seen from Table 12 that each of the metals are considerably less than the associated AL with mercury having the largest ratio of observed concentration to AL (40.13%). Therefore, it can be concluded that concentrations of all metals of concern do not exceed the associated ALs.

8.2 Results for Anions in the Vault Sumps

Data usability was not negatively impacted by the discrepancies noted in the validation of the anions data (Portage Environmental, Inc. 2004j, 2004k, 2004l, 2004m). Analytes reported in samples at concentrations which were indistinguishable from concentrations detected in associated laboratory blanks were considered to be undetected and assigned “U”-flags. All reported data and validation flags are shown in Appendix C. Table 13 presents the anion data generated from the vault sums and compares them to the corresponding AL. Table 14 shows the reported results as a percentage of the corresponding AL. Fluoride had the largest ratio of observed concentration to AL (1.97%). It can be seen from these data that the concentration of anions in the vault sums and diversion valve boxes are well below the ALs.

8.3 Results for Organics in the Vault Sumps

8.3.1 VOC Results

The volatile organic compound (VOC) data were validated in accordance with technical procedures and validation flags were assigned to reported results based on the laboratory performance on quality control analyses (Environmental Validation and Assessment Consultants, Inc. 2004a, 2004b, 2004c, 2004d; Tetra Tech NUS, Inc. 2004a). The undetected result reported for methanol in the WM-184 SR-23 sample (Field ID CP10120601MT) was rejected during validation (Tetra Tech NUS, Inc. 2004a). The “R”-flag was assigned based on a low internal standard area. However, the resulting high methanol-d3 surrogate recovery indicates that the presence of methanol would have been detected in the sample near the quantitation limit. The impact to data usability was deemed negligible. In the validation of the other VOCs, only minor issues were noted in the quality control analyses for some analytes. Dilution analyses for acetone and 2-butanone were conducted two days beyond the holding time requirement of 14 days. In addition, the continuing calibration associated with these analyses was just outside the percent difference criterion. The validation flag “J” was assigned to the results from these analyses to indicate that these results are estimated values. However, the holding time and continuing calibration criteria were met in the original analyses; the measured concentrations exceeded the calibration ranges. Even so, the results from the dilution analyses did not differ significantly from the original results. Therefore, the impact of the noted discrepancies on the data usability should be minimal. The reported results from all the VOC analyses and the corresponding validation flags are shown in Appendix C.

Tables 15 and 16 provide a comparison between the detected VOC results and the corresponding action limits. It can be seen from the data that each of the VOC observations are well below the ALs. The highest observed value, as expressed as a percentage of its AL, is 2-Butanone in WM-184 SR-22 with a percent of 3.02%. It can be concluded that the vault sumps have met closure standards with respect to VOCs.

Table 11. Comparison of the reported metals data for the WM-184, WM-185, and WM-186 vault sums with the specified ALs.

Sample	Location	Aluminum Action Level 3,100,000 (µg/L)	Antimony Action Level 63,000 (µg/L)	Arsenic Action Level 420 (µg/L)	Barium Action Level 83,000 (µg/L)	Beryllium Action Level 5,300 (µg/L)	
CP10120101	WM-186 SR-3	1,840	ND	9.9	28.4	ND	
CP10120202	WM-186 SR-4	753	ND	ND	5.3	ND	
CP10120301	WM-185 SR-1	632	ND	ND	ND	ND	
CP10120401	WM-185 SR-2	2,290	12.9	7.3	128	ND	
CP10120501	WM-184 SR-22	1,110	38.5	40.3	61.9	ND	
CP10120601	WM-184 SR-23	2,040	ND	ND	147	ND	
CP10120701	C-14 Valve Box	1,830	ND	ND	26.3	ND	
CP10120801	C-19 Valve Box	4,340	ND	ND	165	0.20	
Action Level Exceeded?		No	No	No	No	No	
Action Level	Cadmium 610 (µg/L)	Calcium NA (µg/L)	Chromium 900 (µg/L)	Cobalt 770,000 (µg/L)	Copper 600,000 (µg/L)	Iron 1,700,000 (µg/L)	Lead 4,000 (µg/L)
CP10120101	95.3	3,010	48.1	ND	11.4	1,540	20.4
CP10120202	56.2	6,000	36.6	ND	ND	262	5.7
CP10120301	54.0	8,230	60.5	ND	3.6	1,300	46.0
CP10120401	33.3	10,800	135	2.5	19.5	4,350	966
CP10120501	0.70	11,000	89.6	4.0	192	11,700	78.5
CP10120601	0.60	196,000	13.7	1.3	15.0	2,640	76.0
CP10120701	1.5	4,370	21.3	28.3	49.6	2,620	14.9
CP10120801	4.1	20,000	70.2	167	194	10,700	118
Action Level Exceeded?	No	NA	No	No	No	No	No

Table 11. (continued).

Action Level	Magnesium NA (µg/L)	Manganese 490,000 (µg/L)	Mercury 160 (µg/L)	Molybdenum NA (µg/L)	Nickel 440,000 (µg/L)	Potassium NA (µg/L)	Selenium 89 (µg/L)
CP10120101	1,050	ND	23.1	ND	17.7	30,400	ND
CP10120202	2,440	8.0	9.3	ND	7.3	61,500	ND
CP10120301	1,390	26.5	25.1	6.5	6.4	17,100	ND
CP10120401	1,220	45.4	64.2	61.4	20.2	15,200	ND
CP10120501	4,760	107	ND	13.3	81.8	93,500	6.3
CP10120601	1,440	ND	ND	ND	11.9	4,180	ND
CP10120701	515	54.3	0.35	ND	36.9	1,450	ND
CP10120801	2,420	229	0.89	ND	56.5	2,400	ND
Action Level Exceeded?	NA	No	No	NA	No	NA	No
Action Level	Silver 3,000 (µg/L)	Sodium NA (µg/L)	Thallium 26,000 (µg/L)	Vanadium 260,000 (µg/L)	Zinc 1,700,000 (µg/L)		
CP10120101	ND	18,900	ND	17.2	44.5		
CP10120202	ND	34,800	ND	17.3	9.5		
CP10120301	11.6	31,000	ND	ND	ND		
CP10120401	ND	20,000	ND	4.9	69.2		
CP10120501	ND	83,500	ND	48.7	245		
CP10120601	ND	2,850	ND	5.7	171		
CP10120701	ND	1,480	ND	5.1	67.3		
CP10120801	ND	1,020	ND	5.4	349		
Action Level Exceeded?	No	NA	No	No	No		

NA = There is not an AL associated with this analyte.

ND = Analyte not detected in this sample.

Table 12. Reported metals data from the vault sums expressed as a percentage of the AL (i.e., observed value/AL).

Sample	Location	Aluminum Action Level 3,100,000 ($\mu\text{g/L}$)	Antimony Action Level 63,000 ($\mu\text{g/L}$)	Arsenic Action Level 63,000 ($\mu\text{g/L}$)	Barium Action Level 83,000 ($\mu\text{g/L}$)	Beryllium Action Level 5,500 ($\mu\text{g/L}$)		
CP10120101	WM-186 SR-3	0.06%	ND	0.02%	0.03%	ND		
CP10120202	WM-186 SR-4	0.02%	ND	ND	0.01%	ND		
CP10120301	WM-185 SR-1	0.02%	ND	ND	ND	ND		
CP10120401	WM-185 SR-2	0.07%	0.02%	0.00%	0.15%	ND		
CP10120501	WM-184 SR-22	0.04%	0.06%	0.06%	0.07%	ND		
CP10120601	WM-184 SR-23	0.07%	ND	ND	0.18%	ND		
CP10120701	C-14 Valve Box	0.06%	ND	ND	0.03%	ND		
CP10120801	C-19 Valve Box	0.14%	ND	ND	0.20%	0.00%		
Action Level		Cadmium 610 ($\mu\text{g/L}$)	Chromium 900 ($\mu\text{g/L}$)	Cobalt 770,000 ($\mu\text{g/L}$)	Copper 600,000 ($\mu\text{g/L}$)	Iron 1,700,000 ($\mu\text{g/L}$)	Lead 4,000 ($\mu\text{g/L}$)	Manganese 490,000 ($\mu\text{g/L}$)
CP10120101	15.62%	5.34%	ND	0.00%	0.09%	0.51%	ND	
CP10120202	9.21%	0.73%	ND	ND	0.02%	0.14%	0.00%	
CP10120301	8.85%	6.72%	ND	0.00%	0.08%	1.15%	0.01%	
CP10120401	5.46%	15.0%	0.00%	0.00%	0.26%	24.15%	0.01%	
CP10120501	0.11%	0.90%	0.00%	0.03%	0.69%	1.96%	0.02%	
CP10120601	0.10%	1.52%	0.00%	0.02%	0.16%	1.9%	ND	
CP10120701	0.25%	2.37%	0.00%	0.01%	0.15%	0.37%	0.01%	
CP10120801	0.67%	7.80%	0.02%	0.03%	0.63%	2.95%	0.05%	

Table 12. (continued).

Action Level	Mercury 160 (µg/L)	Nickel 440,000 (µg/L)	Selenium 89 (µg/L)	Silver 3,000 (µg/L)	Thallium 26,000 (µg/L)	Vanadium 260,000 (µg/L)	Zinc 1,700,000 (µg/L)
CP10120101	14.44%	0.00%	ND	ND	ND	0.01%	0.00%
CP10120202	5.81%	0.00%	ND	ND	ND	0.01%	0.00%
CP10120301	15.69%	0.00%	ND	0.39%	ND	ND	0.00%
CP10120401	40.13%	0.00%	ND	ND	ND	0.00%	0.00%
CP10120501	ND	0.02%	7.08%	ND	ND	0.02%	0.01%
CP10120601	ND	0.00%	ND	ND	ND	0.00%	0.01%
CP10120701	0.22%	0.01%	ND	ND	ND	0.00%	0.00%
CP10120801	0.56%	0.01%	ND	ND	ND	0.00%	0.02%

NA = Not Applicable. No action level is associated with this analyte.

ND = Analyte not detected in this sample.

Table 13. Comparison of the anion data obtained from the vault sums with the specified ALs.

Sample	Location	Chloride Action Level NA (mg/L)	Fluoride Action Level 770 (mg/L)	Nitrate Action Level NA (mg-N/L)	Phosphate Action Level NA (mg-P/L)	Sulfate Action Level NA (mg/L)
CP10120101	WM-186 SR-3	2.80	3.07	0.59	ND	1.48
CP10120201	WM-186 SR-4	3.50	15.2	1.16	ND	3.02
CP10120301	WM-185 SR-1	5.69	1.18	21.9	ND	32.6
CP10120401	WM-185 SR-2	4.66	5.42	14.0	0.18	30.1
CP10120501	WM-184 SR-22	6.10	0.49	10.9	ND	17.7
CP10120601	WM-184 SR-23	2.45	0.43	0.97	ND	7.54
CP10120701	C-14 Valve Box	3.7	0.12	0.98	0.32	0.63
CP10120801	C-19 Valve Box	2.8	ND	0.44	ND	0.51
Action Level Exceeded?		No	No	No	No	No

NA =Not applicable. No AL is associated with this analyte.

ND = Analyte not detected in this sample.

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Table 14. Reported anions data from the vault sums expressed as a percentage of the AL (i.e., observed value/AL).

Sample	Location	Chloride Action Level NA (mg/L)	Fluoride Action Level 770 (mg/L)	Nitrate Action Level NA (mg-N/L)	Phosphate Action Level NA (mg-P/L)	Sulfate Action Level NA (mg/L)
CP10120101	WM-186 SR-3	NA	0.399%	NA	NA	NA
CP10120201	WM-186 SR-4	NA	1.97%	NA	NA	NA
CP10120301	WM-185 SR-1	NA	0.153%	NA	NA	NA
CP10120401	WM-185 SR-2	NA	0.704%	NA	NA	NA
CP10120501	WM-184 SR-22	NA	0.064%	NA	NA	NA
CP10120601	WM-184 SR-23	NA	0.056%	NA	NA	NA
CP10120701	C-14 Valve Box	NA	0.016%	NA	NA	NA
CP10120801	C-19 Valve Box	NA	ND	NA	NA	NA
Action Level Exceeded?		No	No	No	No	No

NA =Not applicable. No AL is associated with this analyte.

ND = Analyte not detected in this sample.

Table 15. Comparison of the VOC data obtained from the vault sums with the specified ALs.

Sample	Location	2-Butanone Action Level 160,000 ($\mu\text{g/L}$)	Acetone Action Level 990,000 ($\mu\text{g/L}$)	Carbon Disulfide Action Level 990,000 ($\mu\text{g/L}$)	Cyclohexane Action Level 7,500,000 ($\mu\text{g/L}$)	Methanol Action Level 2,200,000 ($\mu\text{g/L}$)	Toluene Action Level 1,400,000 ($\mu\text{g/L}$)
CP10120101	WM-186 SR-3	ND	35.2	ND	1.9	ND	ND
CP10120201	WM-186 SR-4	297	154	ND	ND	ND	2.0
CP10121101	WM-185 SR-1	ND	ND	ND	1.3	44.1	ND
CP10121201	WM-185 SR-2	ND	11.1	ND	ND	ND	ND
CP10120501	WM-184 SR-22	4,830	2,430	ND	ND	ND	ND
CP10120601	WM-184 SR-23	453	192	ND	ND	ND	2.3
CP10120701	C-14 Valve Box	ND	ND	27.8	1.0	ND	ND
CP10120801	C-19 Valve Box	ND	ND	ND	ND	ND	ND
Action Level Exceeded?		No	No	No	No	No	

NA = There is not an AL associated with this analyte.

ND = Analyte not detected in this sample.

Table 16. Reported VOC data from the vault sums expressed as a percentage of the AL (i.e., observed value/AL).

Sample	Location	2-Butanone Action Level 160,000 ($\mu\text{g/L}$)	Acetone Action Level 990,000 ($\mu\text{g/L}$)	Carbon Disulfide Action Level 990,000 ($\mu\text{g/L}$)	Cyclohexane Action Level 7,500,000 ($\mu\text{g/L}$)	Toluene Action Level 1,400,000 ($\mu\text{g/L}$)
CP10120101	WM-186 SR-3	ND	0.00%	ND	0.00%	ND
CP10120201	WM-186 SR-4	0.19%	0.02%	ND	ND	0.00%
CP10121101	WM-185 SR-1	ND	ND	ND	0.00%	ND
CP10121201	WM-185 SR-2	ND	0.00%	ND	ND	ND
CP10120501	WM-184 SR-22	3.02%	0.25%	ND	ND	ND
CP10120601	WM-184 SR-23	0.28%	0.02%	ND	ND	0.00%
CP10120701	C-14 Valve Box	ND	ND	0.00%	0.00%	ND
CP10120801	C-19 Valve Box	ND	ND	ND	ND	ND

NA = There is not an AL associated with this analyte.

ND = Analyte not detected in this sample.

8.3.2 SVOC and PCB Results

Data for semivolatile organic compound (SVOC) and polychlorinated biphenyl (PCB) analyses were also validated in accordance with technical procedures and validation flags were assigned based on the laboratory performance in the associated quality control analyses (Environmental Validation and Assessment Consultants, Inc. 2004e, 2004f, 2004g, 2004h; Tetra Tech NUS, Inc. 2004b). The reported results from all the SVOC and PCB analyses and the corresponding validation flags are shown in Appendix C. The SVOC data for the detected compounds are presented in Tables 17 and 18. Phenol had the largest percentage (0.00021%) of the observed concentration of each SVOC and PCB relative to the AL. It can be safely concluded that the vault sumps have met closure criteria with respect to SVOCs.

Table 17. Comparison of the SVOC data obtained from the vault sumps with the specified ALs.

Sample	Location	Phenol Action Level 2,400,000 ($\mu\text{g/L}$)	Tributyl phosphate Action Level NA ($\mu\text{g/L}$)
CP10120101	WM-186 SR-3	ND	3.4
CP10120201	WM-186 SR-4	ND	ND
CP10121101	WM-185 SR-1	ND	ND
CP10121201	WM-185 SR-2	ND	ND
CP10120501	WM-184 SR-22	ND	ND
CP10120601	WM-184 SR-23	ND	ND
CP10120701	C-14 Valve Box	2.0	ND
CP10120801	C-19 Valve Box	5.1	ND
Action Level Exceeded?		No	NA

ND = Analyte not detected in this sample.

Table 18. Reported SVOC data from the vault sumps expressed as a percentage of the AL (i.e., observed value/AL).

Sample	Location	Phenol Action Level 2,400,000 ($\mu\text{g/L}$)	Tributyl phosphate Action Level NA ($\mu\text{g/L}$)
CP10120101	WM-186 SR-3	ND	NA
CP10120201	WM-186 SR-4	ND	NA
CP10121101	WM-185 SR-1	ND	NA
CP10121201	WM-185 SR-2	ND	NA
CP10120501	WM-184 SR-22	ND	NA
CP10120601	WM-184 SR-23	ND	NA
CP10120701	C-14 Valve Box	0.000083%	NA
CP10120801	C-19 Valve Box	0.00021%	NA

8.4 Results for pH in the Vault Sumps

The pH of the post-decontamination residuals collected from the WM-184, WM-185, and WM-186 vault sumps was also measured. The data for pH were validated according to technical procedures, and no issues with any applicable quality control criteria were identified (Portage Environmental, Inc. 2004j, 2004k, 2004l, 2004m).

Table 19 shows the results reported for pH and the associated ALs. Laboratory results and associated validation flags for pH data presented in this DQA are listed in Appendix C. The pH value observed in WM-184 SR-22 was initially observed to be 11.8. Therefore, another vial of the rinsate obtained from this sump at the time of sampling was also analyzed for pH. The second pH level was observed to be 11.0. It can be seen from the results that pH values have not exceeded the ALs.

Table 19. Comparison of the pH data obtained from the vault sumps with the specified ALs.

Sample	Location	pH Action Levels lower 2.0, upper 12.5
CP10120101	WM-186 SR-3	9.3
CP10120201	WM-186 SR-4	8.6
CP10120301	WM-185 SR-1	6.1
CP10120401	WM-185 SR-2	6.2
CP10120501	WM-184 SR-22	8.6
CP10120601	WM-184 SR-23	11.4 ^a
CP10120701	C-14 Valve Box	8.7
CP10120801	C-19 Valve Box	9.7
Action Levels Exceeded?		No

a. Value is the average of the two measurements taken.

8.5 Results for Radionuclides in the Vault Sumps

The data for radionuclide analyses were validated in accordance with technical procedures, and validation flags were assigned to sample results based on the established quality control criteria (Portage Environmental, Inc. 2004n, 2004o, 2004p, 2004q, 2004r, 2004s). The data are considered to be of high quality, and the data usability not significantly impacted by the assigned validation flags. All reported results and the corresponding validation flags are shown in Appendix C. Results for the detected radionuclides are presented in Tables 20 and 21. For radionuclides, ⁹⁴Nb had the largest percentage (2.06%) of the observed concentration relative to the corresponding inventory level. All detected radionuclides are reported at concentrations well below inventory levels.

Table 20. Comparison of the radionuclide data obtained from the vault sums with the specified inventory levels.

Sample	Location	Inventory Level	^{241}Am 1.3.6E+07 (pCi/L)		^{244}Cm 3.21E+06 (pCi/L)	^{60}Co 1.40E+07 (pCi/L)	^{137}Cs 7.1.15E+11 (pCi/L)
CP10120101	WM-186 SR-3		2.55E+04		2.20E+03	7.06E+04	4.15E+07
CP10120201	WM-186 SR-4		3.00E+03		2.96E+02	1.86E+04	9.13E+07
CP10120301	WM-185 SR-1		1.58E+03		ND	ND	1.64E+08
CP10120401	WM-185 SR-2		3.84E+04		4.20E+02	1.09E+04	1.39E+08
CP10120501	WM-184 SR-22		ND		ND	ND	1.10E+04
CP10120601	WM-184 SR-23		ND		ND	ND	9.87E+02
CP10120701	C-14 Valve Box		1.49E+03		ND	ND	6.54E+05
CP10120801	C-19 Valve Box		4.64E+02		ND	ND	2.34E+05
Inventory Level Exceeded?			No		No	No	No
Inventory Level	^{154}Eu 4.1.83E+08 (pCi/L)	^{155}Eu 1.83E+08 (pCi/L)	Tritium 1.61E+07 (pCi/L)	^{129}I 7.44E+04 (pCi/L)	^{94}Nb 3.44E+06 (pCi/L)	^{63}Ni 8.70E+07 (pCi/L)	^{237}Np 3.43E+05 (pCi/L)
CP10120101	4.53E+05	9.46E+04	ND	3.64E+01	7.07E+04	1.09E+05	1.29E+02
CP10120201	7.55E+04	ND	4.03E+03	6.10E+01	5.57E+03	2.83E+04	3.57E+01
CP10120301	ND	ND	1.15E+04	1.96E+02	ND	2.83E+04	ND
CP10120401	1.00E+05	ND	1.88E+04	1.17E+02	1.19E+04	1.36E+04	ND
CP10120501	ND	ND	2.74E+03	ND	ND	ND	ND
CP10120601	ND	ND	1.23E+03	ND	ND	ND	ND
CP10120701	4.11E+03	ND	ND	7.45E+01	ND	4.39E+02	ND
CP10120801	5.74E+03	ND	ND	5.15E+00	ND	8.18E+01	ND
Inventory Level Exceeded?			No	No	No	No	No

Table 20. (continued).

Inventory Level	²³⁸ Pu (pCi/L)	^{239/240} Pu (pCi/L)	²⁴¹ Pu (pCi/L)	¹²⁵ Sb (pCi/L)	⁹⁰ Sr (pCi/L)	⁹⁹ Tc (pCi/L)	²³⁴ U (pCi/L)	²³⁵ U (pCi/L)
CP10120101	2.33E+05	1.12E+04	7.66E+05	3.87E+04	3.14E+07	1.82E+02	1.63E+02	ND
CP10120201	2.33E+05	1.12E+04	6.36E+04	3.65E+04	3.54E+07	5.31E+02	ND	4.88E+01
CP10120301	7.78E+04	7.50E+03	8.77E+04	ND	3.27E+07	9.33E+03	ND	ND
CP10120401	5.32E+06	4.74E+05	1.64E+05	ND	3.40E+07	1.08E+04	8.05E+02	ND
CP10120501	ND	ND	8.81E+01	ND	1.06E+03	ND	ND	ND
CP10120601	ND	ND	2.00E+02	ND	ND	ND	ND	ND
CP10120701	2.50E+04	1.04E+03	1.70E+04	ND	3.69E+05	ND	ND	ND
CP10120801	4.13E+03	1.64E+02	6.17E+03	ND	9.93E+04	ND	1.35E+02	ND
Inventory Level Exceeded?	No	No	No	No	No	No	No	No

NA = Not applicable.

ND = Analyte not detected in this sample.

Table 21. Reported radionuclide data from the vault sums expressed as a percentage of the inventory level (i.e., observed value/inventory level).

Sample	Location	Inventory Level	^{241}Am 3.6E+07 (pCi/L)	^{244}Cm 3.21E+06 (pCi/L)	^{60}Co 1.40E+07 (pCi/L)	^{137}Cs 1.15E+11 (pCi/L)			
CP10120101	WM-186 SR-3		0.07%	0.07%	0.50%	0.04%			
CP10120201	WM-186 SR-4		0.01%	0.01%	0.13%	0.08%			
CP10120301	WM-185 SR-1		0.00%	ND	ND	0.14%			
CP10120401	WM-185 SR-2		0.11%	0.01%	0.08%	0.12%			
CP10120501	WM-184 SR-22		ND	ND	ND	0.00%			
CP10120601	WM-184 SR-23		ND	ND	ND	0.00%			
CP10120701	C-14 Valve Box		0.00%	ND	ND	0.00%			
CP10120801	C-19 Valve Box		0.00%	ND	ND	0.00%			
Inventory Level			^{154}Eu 1.83E+08 (pCi/L)	^{155}Eu 1.83E+08 (pCi/L)	Tritium 1.61E+07 (pCi/L)	^{129}I 7.44E+04 (pCi/L)	^{94}Nb 3.44E+06 (pCi/L)	^{63}Ni 8.70E+07 (pCi/L)	$^{237}\text{Np-237}$ 3.43E+05 (pCi/L)
CP10120101	0.25%	ND	0.01%	ND	0.05%	2.06%	0.13%	0.04%	
CP10120201	0.04%	ND	ND	0.03%	0.08%	0.16%	0.03%	0.01%	
CP10120301	ND	ND	ND	0.07%	0.26%	ND	0.03%	ND	
CP10120401	0.05%	ND	ND	0.12%	0.16%	0.35%	0.02%	ND	
CP10120501	ND	ND	ND	0.02%	ND	ND	ND	ND	
CP10120601	ND	ND	ND	0.01%	ND	ND	ND	ND	
CP10120701	0.00%	ND	ND	ND	0.10%	ND	0.00%	ND	
CP10120801	0.00%	ND	ND	ND	0.01%	ND	0.00%	ND	

Table 21. (continued).

Inventory Level	^{238}Pu 5.70E+08 (pCi/L)	$^{239/240}\text{Pu}$ 7.05E+07 (pCi/L)	^{241}Pu 4.24E+08 (pCi/L)	^{125}Sb 1.49E+06 (pCi/L)	^{90}Sr 8.15E+10 (pCi/L)	^{99}Tc 2.99E+07 (pCi/L)	^{234}U 2.52E+06 (pCi/L)
CP10120101	0.04%	0.02%	0.18%	2.60%	0.04%	0.00%	0.01%
CP10120201	0.04%	0.02%	0.02%	2.45%	0.04%	0.00%	ND
CP10120301	0.01%	0.01%	0.02%	ND	0.04%	0.03%	ND
CP10120401	0.93%	0.67%	0.04%	ND	0.04%	0.00%	0.03%
CP10120501	ND	ND	0.00%	ND	0.00%	ND	ND
CP10120601	ND	ND	0.00%	ND	ND	ND	ND
CP10120701	0.00%	0.00%	0.00%	ND	0.00%	ND	ND
CP10120801	0.00%	0.00%	0.00%	ND	0.00%	ND	0.01%

NA = Not applicable.

ND = Analyte not detected in this sample.

9. CONCLUSIONS

Rinsate samples were taken from the ancillary equipment associated with Tanks WM-184, WM-185, and WM-186 that were addressed in the HWMA/RCRA closure plan (DOE-ID 2004). Rinsate samples taken from the WM-185 cooling coils, vault sumps, and the C-14 and C-19 diversion valve boxes were analyzed for constituents, properties (i.e., pH), and radionuclides of concern.

More specifically, cooling coils were analyzed for chromium, pH, and radionuclides of concern. None of the radionuclides of concern were detected in the final rinsate of the cooling coils. Levels of chromium and pH were well within the regulatory limits.

Rinsate samples taken from the vault sumps were previously determined to be from separate populations, and therefore, were not pooled together for data analysis. This was a noted deviation from the SAP associated with the decontamination of the vault sumps (INEEL 2003). However, data show that none of the vault sumps or diversion valve boxes contained concentrations of constituents or radionuclides of concern that exceed the ALs. Therefore of the ancillary equipment associated with WM-184, WM-185, and WM-186 none contained concentrations of these analytes at levels that exceeded the action or inventory levels. Thus, it can be concluded that closure standards have been met with regard to the ancillary equipment associated with this tank system.

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Portage Environmental, Inc., 2004q, *Radioanalytical Data Limitations and Validation Report for the Radiological Analyses of Samples Collected at the INEEL by Bechtel BWXT Idaho, LLC (BBWI) in Support of the Post Decontamination Characterization of WM-184, WM-185, and WM-186 Sumps*, Report Number BBWI-INEEL-INT-04-01894-05-04, SDG CP10120301X4, May 25, 2004.

Portage Environmental, Inc., 2004r, *Radioanalytical Data Limitations and Validation Report for the Radiological Analyses of Samples Collected at the INEEL by Bechtel BWXT Idaho, LLC (BBWI) in Support of the Post Decontamination Characterization of WM-184, -185, and -186 Sumps*, Report Number BBWI-ICP/INT-04-00198-02-04, SDG CP10120101X5, February 19, 2004.

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Appendix A

Graphical Representation of Data from WM-185 Cooling Coils

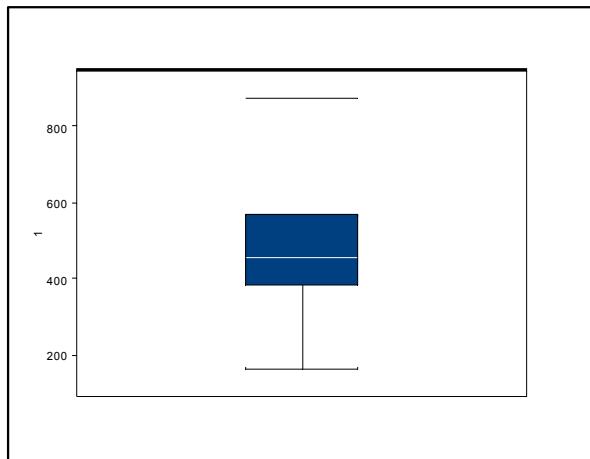


Figure A-1. Boxplot for chromium data.

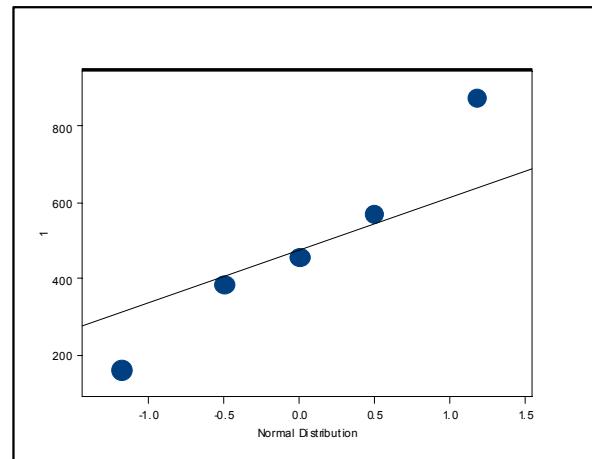


Figure A-2. Normal-quantile plot for chromium data

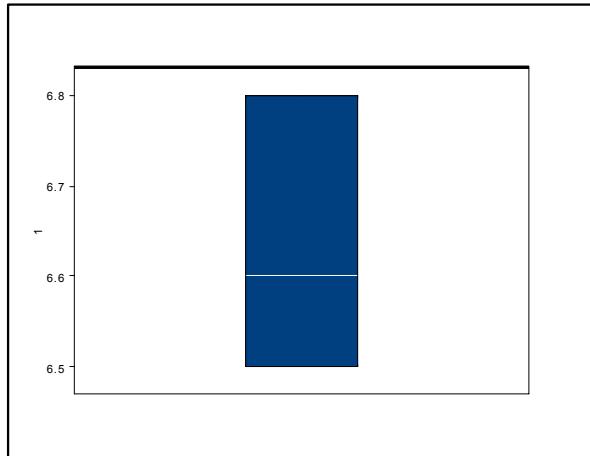


Figure A-3. Boxplot for pH data.

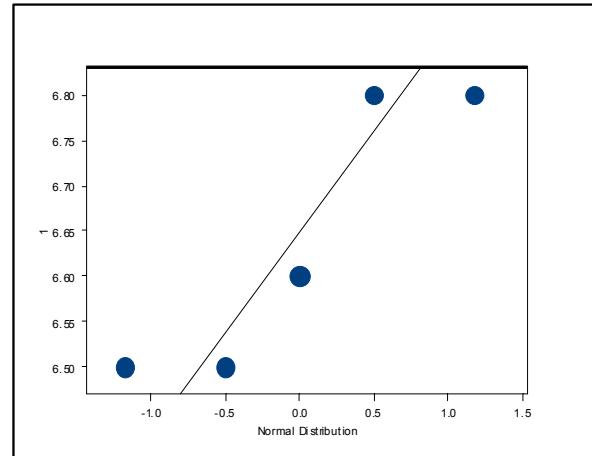


Figure A-4. Normal-quantile plot for pH data

Appendix B

Reported Results for WM-185 Cooling Coils

Table B-1. Reported results for inorganic analyses for WM-185 cooling coils.

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^a	Validator Flag ^a
CP10150101XM	WM-185 Coil 503	4AI21	INORG	Metals	7440-47-3	Chromium	8.74E+02	µg/L		
CP10150201XM	WM-185 Coil 511	4AI24	INORG	Metals	7440-47-3	Chromium	5.68E+02	µg/L		
CP10150301XM	WM-185 Coil 517	4AI27	INORG	Metals	7440-47-3	Chromium	4.56E+02	µg/L		
CP10150401XM	WM-185 Coil 519	4AI30	INORG	Metals	7440-47-3	Chromium	3.83E+02	µg/L		
CP10150501XM	WM-185 Coil 529	4AI33	INORG	Metals	7440-47-3	Chromium	1.60E+02	µg/L		
CP10150101PH	WM-185 Coil 503	4AI23	INORG	pH	*pH	pH	6.5	N/A		
CP10150201PH	WM-185 Coil 511	4AI26	INORG	pH	*pH	pH	6.5	N/A		
CP10150301PH	WM-185 Coil 517	4AI29	INORG	pH	*pH	pH	6.6	N/A		
CP10150401PH	WM-185 Coil 519	4AI32	INORG	pH	*pH	pH	6.8	N/A		
CP10150501PH	WM-185 Coil 529	4AI35	INORG	pH	*pH	pH	6.8	N/A		

a. No laboratory or validation flags were assigned to these results.

Table B-2. Reported results for radionuclide analyses for WM-185 cooling coils.

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^a	MDA	
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁰³ Ru	-6.52E-01	pCi/L	3.97E+00	U	1.54E+01	
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁰³ Ru	-1.15E+00	pCi/L	4.63E+00	U	1.59E+01	
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁰³ Ru	2.38E+00	pCi/L	5.93E+00	U	1.56E+01	
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁰³ Ru	-2.73E+00	pCi/L	6.41E+00	U	1.61E+01	
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁰³ Ru	-4.66E+00	pCi/L	8.40E+00	U	1.55E+01	
B-4	CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁰⁶ Ru	4.24E+00	pCi/L	1.76E+01	U	5.99E+01
	CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁰⁶ Ru	1.67E-01	pCi/L	1.30E+01	U	5.94E+01
	CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁰⁶ Ru	-1.77E+01	pCi/L	3.13E+01	U	5.47E+01
	CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁰⁶ Ru	5.06E+01	pCi/L	6.98E+01	U	6.63E+01
	CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁰⁶ Ru	-2.50E+00	pCi/L	1.52E+01	U	5.78E+01
	CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	^{108m} Ag	-9.65E-02	pCi/L	1.49E+00	U	6.04E+00
	CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	^{108m} Ag	-2.14E+00	pCi/L	3.54E+00	U	5.53E+00
	CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	^{108m} Ag	-2.25E+00	pCi/L	3.69E+00	U	5.64E+00
	CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	^{108m} Ag	3.51E-02	pCi/L	1.40E+00	U	5.92E+00
	CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	^{108m} Ag	-1.88E+00	pCi/L	3.27E+00	U	5.55E+00
	CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	^{110m} Ag	-1.45E+00	pCi/L	3.41E+00	U	8.73E+00
	CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	^{110m} Ag	-1.87E+00	pCi/L	3.77E+00	U	8.34E+00
	CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	^{110m} Ag	4.00E+00	pCi/L	6.16E+00	U	8.74E+00
	CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	^{110m} Ag	1.73E+00	pCi/L	3.66E+00	U	8.53E+00
	CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	^{110m} Ag	3.73E+00	pCi/L	5.90E+00	U	8.89E+00
	CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹²⁵ Sb	-4.77E+00	pCi/L	8.98E+00	U	1.80E+01
	CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹²⁵ Sb	-6.22E+00	pCi/L	1.05E+01	U	1.80E+01
	CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹²⁵ Sb	3.60E+00	pCi/L	7.99E+00	U	1.92E+01
	CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹²⁵ Sb	1.88E+00	pCi/L	6.13E+00	U	1.90E+01
	CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹²⁵ Sb	-2.82E+00	pCi/L	6.94E+00	U	1.82E+01

Table B-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^a	MDA
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹³⁴ Cs	1.07E-02	pCi/L	1.51E+00	U	6.22E+00
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹³⁴ Cs	-2.32E+00	pCi/L	3.75E+00	U	5.92E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹³⁴ Cs	1.07E-02	pCi/L	1.46E+00	U	6.01E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹³⁴ Cs	-2.51E+00	pCi/L	3.94E+00	U	5.82E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹³⁴ Cs	1.07E-02	pCi/L	1.49E+00	U	6.14E+00
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹³⁷ Cs	3.79E+00	pCi/L	5.55E+00	U	7.09E+00
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹³⁷ Cs	5.51E+00	pCi/L	7.39E+00	U	7.14E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹³⁷ Cs	4.31E+00	pCi/L	5.98E+00	U	6.46E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹³⁷ Cs	2.89E+00	pCi/L	4.55E+00	U	6.90E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹³⁷ Cs	2.77E+00	pCi/L	4.41E+00	U	6.78E+00
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁴⁴ Ce	1.00E+01	pCi/L	2.49E+01	U	6.14E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁴⁴ Ce	-1.71E+00	pCi/L	1.56E+01	U	6.03E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁴⁴ Ce	1.56E+01	pCi/L	3.09E+01	U	6.13E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁴⁴ Ce	-1.60E+01	pCi/L	3.16E+01	U	6.23E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁴⁴ Ce	-7.58E+00	pCi/L	2.21E+01	U	6.06E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁵² Eu	2.70E-02	pCi/L	5.10E+00	U	2.02E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁵² Eu	-1.34E+00	pCi/L	5.82E+00	U	1.97E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁵² Eu	-2.64E-01	pCi/L	4.74E+00	U	1.99E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁵² Eu	-2.70E+00	pCi/L	7.39E+00	U	2.02E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁵² Eu	-2.43E+00	pCi/L	7.09E+00	U	2.02E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁵⁴ Eu	-1.28E-01	pCi/L	3.61E+00	U	1.67E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁵⁴ Eu	3.13E+00	pCi/L	6.89E+00	U	1.64E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁵⁴ Eu	9.20E+00	pCi/L	1.40E+01	U	1.82E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁵⁴ Eu	3.93E+00	pCi/L	8.00E+00	U	1.75E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁵⁴ Eu	2.35E+00	pCi/L	6.11E+00	U	1.68E+01

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Table B-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^a	MDA
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	¹⁵⁵ Eu	-1.12E-01	pCi/L	7.48E+00	U	3.19E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	¹⁵⁵ Eu	-1.20E+01	pCi/L	2.00E+01	U	2.98E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	¹⁵⁵ Eu	-1.37E+01	pCi/L	2.19E+01	U	3.02E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	¹⁵⁵ Eu	3.12E+00	pCi/L	1.09E+01	U	3.26E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	¹⁵⁵ Eu	1.09E+01	pCi/L	1.93E+01	U	3.19E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	²²⁶ Ra	-2.00E+01 ^b	pCi/L	5.99E+01	U	1.74E+02
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	²²⁶ Ra	-4.02E+01 ^b	pCi/L	8.01E+01	U	1.70E+02
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	²²⁶ Ra	1.46E+02 ^b	pCi/L	1.91E+02	U	1.76E+02
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	²²⁶ Ra	1.12E+02 ^b	pCi/L	1.58E+02	U	1.87E+02
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	²²⁶ Ra	1.93E+01 ^b	pCi/L	6.03E+01	U	1.79E+02
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	²³⁵ U	6.94E+00 ^b	pCi/L	9.68E+00	U	1.09E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	²³⁵ U	4.36E+00 ^b	pCi/L	6.92E+00	U	1.06E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	²³⁵ U	1.03E+01 ^b	pCi/L	1.32E+01	U	1.09E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	²³⁵ U	8.75E+00 ^b	pCi/L	1.17E+01	U	1.14E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	²³⁵ U	1.06E+00 ^b	pCi/L	3.56E+00	U	1.09E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	²⁴¹ Am	8.91E+00	pCi/L	2.03E+01	U	5.03E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	²⁴¹ Am	3.87E+00	pCi/L	1.50E+01	U	5.03E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	²⁴¹ Am	4.59E-02	pCi/L	1.20E+01	U	4.79E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	²⁴¹ Am	5.51E+00	pCi/L	1.72E+01	U	5.24E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	²⁴¹ Am	-1.02E+01	pCi/L	2.12E+01	U	4.83E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁵⁴ Mn	-1.42E+00	pCi/L	2.94E+00	U	6.61E+00
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁵⁴ Mn	-1.97E-01	pCi/L	1.50E+00	U	6.07E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁵⁴ Mn	1.01E+00	pCi/L	2.41E+00	U	6.25E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁵⁴ Mn	6.96E-02	pCi/L	1.44E+00	U	6.39E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁵⁴ Mn	-1.67E-01	pCi/L	1.52E+00	U	6.31E+00

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Table B-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^a	MDA
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁵⁸ Co	-2.58E+00	pCi/L	4.68E+00	U	8.85E+00
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁵⁸ Co	1.29E+00	pCi/L	3.46E+00	U	9.68E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁵⁸ Co	1.44E+00	pCi/L	3.58E+00	U	9.45E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁵⁸ Co	1.21E+00	pCi/L	3.19E+00	U	8.82E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁵⁸ Co	-1.55E-01	pCi/L	2.15E+00	U	9.25E+00
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁶⁰ Co	-5.02E+00	pCi/L	1.28E+01	U	1.03E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁶⁰ Co	8.71E-01	pCi/L	1.97E+00	U	8.56E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁶⁰ Co	-3.61E+00	pCi/L	4.79E+00	U	8.53E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁶⁰ Co	-3.59E+00	pCi/L	4.74E+00	U	9.28E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁶⁰ Co	5.28E+00	pCi/L	6.37E+00	U	8.55E+00
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁶⁵ Zn	-2.81E+00	pCi/L	5.88E+00	U	1.36E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁶⁵ Zn	-5.03E+00	pCi/L	8.24E+00	U	1.34E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁶⁵ Zn	9.44E+00	pCi/L	1.31E+01	U	1.41E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁶⁵ Zn	-3.06E+00	pCi/L	6.12E+00	U	1.35E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁶⁵ Zn	-4.09E+00	pCi/L	7.20E+00	U	1.33E+01
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁹⁴ Nb	1.64E+00	pCi/L	2.98E+00	U	5.79E+00
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁹⁴ Nb	4.22E-01	pCi/L	1.62E+00	U	5.54E+00
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁹⁴ Nb	-1.77E+00	pCi/L	3.04E+00	U	5.44E+00
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁹⁴ Nb	8.75E-01	pCi/L	2.11E+00	U	5.58E+00
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁹⁴ Nb	-2.56E+00	pCi/L	3.89E+00	U	5.46E+00
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁹⁵ Nb	4.12E-01	pCi/L	3.74E+00	U	1.52E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁹⁵ Nb	2.82E+00	pCi/L	6.82E+00	U	1.74E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁹⁵ Nb	-3.07E-01	pCi/L	3.99E+00	U	1.68E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁹⁵ Nb	8.45E+00	pCi/L	1.30E+01	U	1.81E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁹⁵ Nb	5.81E+00	pCi/L	9.81E+00	U	1.64E+01

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Table B-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^a	MDA
CP10150101R4	WM-185 Coil 503	4AI22	RADS	gamma	⁹⁵ Zr	4.25E-01	pCi/L	3.98E+00	U	1.71E+01
CP10150201R4	WM-185 Coil 511	4AI25	RADS	gamma	⁹⁵ Zr	1.57E+00	pCi/L	5.18E+00	U	1.69E+01
CP10150301R4	WM-185 Coil 517	4AI28	RADS	gamma	⁹⁵ Zr	1.06E+00	pCi/L	4.79E+00	U	1.76E+01
CP10150401R4	WM-185 Coil 519	4AI31	RADS	gamma	⁹⁵ Zr	8.71E+00	pCi/L	1.32E+01	U	1.83E+01
CP10150501R4	WM-185 Coil 529	4AI34	RADS	gamma	⁹⁵ Zr	6.17E-01	pCi/L	4.01E+00	U	1.62E+01

a. Validator flags:

U = Analyte was analyzed for but not detected.

b. ²²⁶Ra and ²³⁵U results by gamma spectrometry are subject to interference.

Appendix C

Reported Results for WM-184, WM-185, and WM-186 Vault Sumps, and C-14 and C-19 Diversion Valve Boxes

Table C-1. Reported results for metals analyses for WM-184, WM-185, and WM-186 vault sumps and C-14 and C-19 diversion valve boxes.

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7429-90-5	Aluminum	1.84E+03	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7429-90-5	Aluminum	7.05E+03	µg/L		
CP10120202XM	WM-186 SR-4	4AI61	INORG	Metals	7429-90-5	Aluminum	7.53E+02	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7429-90-5	Aluminum	6.32E+02	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7429-90-5	Aluminum	2.29E+03	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7429-90-5	Aluminum	1.11E+03	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7429-90-5	Aluminum	2.04E+03	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7429-90-5	Aluminum	1.83E+03	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7429-90-5	Aluminum	4.34E+03	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-36-0	Antimony	6.5E+00	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-36-0	Antimony	6.5E+00	µg/L	U	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-36-0	Antimony	3.4E+00	µg/L	U	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-36-0	Antimony	3.4E+00	µg/L	U	UJ
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-36-0	Antimony	1.29E+01	µg/L	B	J
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-36-0	Antimony	3.85E+01	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-36-0	Antimony	6.5E+00	µg/L	U	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-36-0	Antimony	1.13E+01	µg/L	U	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-36-0	Antimony	3.4E+00	µg/L	U	UJ
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-38-2	Arsenic	9.9E+00	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-38-2	Arsenic	1.12E+01	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-38-2	Arsenic	8.5E+00	µg/L	B	U
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-38-2	Arsenic	4.7E+00	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-38-2	Arsenic	7.3E+00	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-38-2	Arsenic	4.03E+01	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-38-2	Arsenic	4.7E+00	µg/L	U	

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-38-2	Arsenic	4.7E+00	µg/L	U	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-38-2	Arsenic	4.7E+00	µg/L	U	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-39-3	Barium	2.84E+01	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-39-3	Barium	1.39E+01	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-39-3	Barium	5.3E+00	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-39-3	Barium	6.2E+00	µg/L	B	U
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-39-3	Barium	1.28E+02	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-39-3	Barium	6.19E+01	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-39-3	Barium	1.47E+02	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-39-3	Barium	2.63E+01	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-39-3	Barium	1.65E+02	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-41-7	Beryllium	1.0E-01	µg/L	U	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	U	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-41-7	Beryllium	2.0E-01	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-43-9	Cadmium	9.53E+01	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-43-9	Cadmium	7.83E+02	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-43-9	Cadmium	5.62E+01	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-43-9	Cadmium	5.40E+01	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-43-9	Cadmium	3.33E+01	µg/L		

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-43-9	Cadmium	7.0E-01	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-43-9	Cadmium	6.0E-01	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-43-9	Cadmium	1.5E+00	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-43-9	Cadmium	4.1E+00	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-70-2	Calcium	3.01E+03	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-70-2	Calcium	7.83E+03	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-70-2	Calcium	6.00E+03	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-70-2	Calcium	8.23E+03	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-70-2	Calcium	1.08E+04	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-70-2	Calcium	1.10E+04	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-70-2	Calcium	1.96E+05	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-70-2	Calcium	4.37E+03	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-70-2	Calcium	2.00E+04	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-47-3	Chromium	4.81E+01	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-47-3	Chromium	4.98E+01	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-47-3	Chromium	3.66E+01	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-47-3	Chromium	6.05E+01	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-47-3	Chromium	1.35E+02	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-47-3	Chromium	8.96E+01	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-47-3	Chromium	1.37E+01	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-47-3	Chromium	2.13E+01	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-47-3	Chromium	7.02E+01	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-48-4	Cobalt	1.0E+00	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-48-4	Cobalt	2.3E+00	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-48-4	Cobalt	1.0E+00	µg/L	U	

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-48-4	Cobalt	1.0E+00	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-48-4	Cobalt	2.5E+00	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-48-4	Cobalt	4.0E+00	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-48-4	Cobalt	1.3E+00	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-48-4	Cobalt	2.83E+01	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-48-4	Cobalt	1.67E+02	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-50-8	Copper	1.14E+01	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-50-8	Copper	1.91E+01	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-50-8	Copper	5.6E+00	µg/L	B	U
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-50-8	Copper	3.6E+00	µg/L	B	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-50-8	Copper	1.95E+01	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-50-8	Copper	1.92E+02	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-50-8	Copper	1.50E+01	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-50-8	Copper	4.96E+01	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-50-8	Copper	1.94E+02	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-89-6	Iron	1.54E+03	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-89-6	Iron	7.57E+02	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7439-89-6	Iron	2.62E+02	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-89-6	Iron	1.30E+03	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-89-6	Iron	4.35E+03	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-89-6	Iron	1.17E+04	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-89-6	Iron	2.64E+03	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-89-6	Iron	2.62E+03	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-89-6	Iron	1.07E+04	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-92-1	Lead	2.04E+01	µg/L		J

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-92-1	Lead	5.42E+01	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7439-92-1	Lead	5.7E+00	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-92-1	Lead	4.60E+01	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-92-1	Lead	9.66E+02	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-92-1	Lead	7.85E+01	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-92-1	Lead	7.60E+01	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-92-1	Lead	1.49E+01	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-92-1	Lead	1.18E+02	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-95-4	Magnesium	1.05E+03	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-95-4	Magnesium	2.75E+03	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7439-95-4	Magnesium	2.44E+03	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-95-4	Magnesium	1.39E+03	µg/L	B	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-95-4	Magnesium	1.22E+03	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-95-4	Magnesium	4.76E+03	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-95-4	Magnesium	1.44E+03	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-95-4	Magnesium	5.15E+02	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-95-4	Magnesium	2.42E+03	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-96-5	Manganese	4.18E+01	µg/L		U
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-96-5	Manganese	2.56E+01	µg/L		U
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7439-96-5	Manganese	8.0E+00	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-96-5	Manganese	2.65E+01	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-96-5	Manganese	4.54E+01	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-96-5	Manganese	1.07E+02	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-96-5	Manganese	3.61E+01	µg/L		U
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-96-5	Manganese	5.43E+01	µg/L		

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-96-5	Manganese	2.29E+02	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-97-6	Mercury	2.31E+01	µg/L	DN	J
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-97-6	Mercury	9.3E+00	µg/L	DN	J
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-97-6	Mercury	1.40E+03	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-97-6	Mercury	8.41E+02	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-97-6	Mercury	1.2E-01	µg/L	U	UJ
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-97-6	Mercury	1.2E-01	µg/L	U	UJ
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-97-6	Mercury	2.45E+02	µg/L	D	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-97-6	Mercury	8.9E-01	µg/L	B	
CP10121101XM	WM-185 SR-1 ^d	4BC80	INORG	Metals	7439-97-6	Mercury	1.80E+03	µg/L	D	
CP10121201XM	WM-185 SR-2 ^d	4BC81	INORG	Metals	7439-97-6	Mercury	6.42E+01	µg/L	D	
CP10121301XM	C-14 Valve Box ^e	4BC82	INORG	Metals	7439-97-6	Mercury	3.5E-01	µg/L	B	
CP10121801XM	WM-185 SR-1 ^f	4BS37	INORG	Metals	7439-97-6	Mercury	2.51E+01	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7439-98-7	Molybdenum	4.0E+00	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7439-98-7	Molybdenum	6.4E+00	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7439-98-7	Molybdenum	7.0E+00	µg/L	B	U
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7439-98-7	Molybdenum	6.5E+00	µg/L	B	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7439-98-7	Molybdenum	6.14E+01	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7439-98-7	Molybdenum	1.33E+01	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7439-98-7	Molybdenum	4.0E+00	µg/L	U	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7439-98-7	Molybdenum	4.0E+00	µg/L	U	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7439-98-7	Molybdenum	4.0E+00	µg/L	U	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-02-0	Nickel	1.77E+01	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-02-0	Nickel	2.89E+01	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-02-0	Nickel	7.3E+00	µg/L	B	

Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-02-0	Nickel	6.4E+00	µg/L	B	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-02-0	Nickel	2.02E+01	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-02-0	Nickel	8.18E+01	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-02-0	Nickel	1.19E+01	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-02-0	Nickel	3.69E+01	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-02-0	Nickel	5.65E+01	µg/L		
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-09-7	Potassium	3.04E+04	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-09-7	Potassium	6.12E+04	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-09-7	Potassium	6.15E+04	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-09-7	Potassium	1.71E+04	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-09-7	Potassium	1.52E+04	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-09-7	Potassium	9.35E+04	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-09-7	Potassium	4.18E+03	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-09-7	Potassium	1.45E+03	µg/L	BW	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-09-7	Potassium	2.40E+03	µg/L	BW	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7782-49-2	Selenium	4.90E+00	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7782-49-2	Selenium	4.5E+00	µg/L	U	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7782-49-2	Selenium	6.3E+00	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7782-49-2	Selenium	4.9E+00	µg/L	U	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-22-4	Silver	1.6E+00	µg/L	U	

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-22-4	Silver	2.0E+00	µg/L	B	U
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-22-4	Silver	2.3E+00	µg/L	U	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-22-4	Silver	1.16E+01	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-22-4	Silver	4.7E+00	µg/L	B	U
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-22-4	Silver	1.6E+00	µg/L	U	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-22-4	Silver	2.1E+00	µg/L	B	U
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-22-4	Silver	1.6E+00	µg/L	U*	UJ
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-22-4	Silver	1.9E+00	µg/L	B*	UJ
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-23-5	Sodium	1.89E+04	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-23-5	Sodium	3.51E+04	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-23-5	Sodium	3.48E+04	µg/L		
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-23-5	Sodium	3.10E+04	µg/L		
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-23-5	Sodium	2.00E+04	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-23-5	Sodium	8.35E+04	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-23-5	Sodium	2.85E+03	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-23-5	Sodium	1.48E+03	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-23-5	Sodium	1.02E+03	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-28-0	Thallium	3.6E+00	µg/L	U	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-28-0	Thallium	4.9E+00	µg/L	U	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-62-2	Vanadium	1.72E+01	µg/L	B	
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-62-2	Vanadium	1.71E+01	µg/L	B	
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-62-2	Vanadium	1.73E+01	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-62-2	Vanadium	2.8E+00	µg/L	U	
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-62-2	Vanadium	4.9E+00	µg/L	B	
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-62-2	Vanadium	4.87E+01	µg/L	B	
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-62-2	Vanadium	5.7E+00	µg/L	B	
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-62-2	Vanadium	5.1E+00	µg/L	B	
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-62-2	Vanadium	5.4E+00	µg/L	B	
CP10120101XM	WM-186 SR-3 ^a	3CE10	INORG	Metals	7440-66-6	Zinc	4.45E+01	µg/L		
CP10120201XM	WM-186 SR-4	3CE16	INORG	Metals	7440-66-6	Zinc	7.19E+01	µg/L		
CP10120202XM	WM-186 SR-4 ^b	4AI61	INORG	Metals	7440-66-6	Zinc	9.5E+00	µg/L	B	
CP10120301XM	WM-185 SR-1	3CE86	INORG	Metals	7440-66-6	Zinc	2.99E+01	µg/L		U
CP10120401XM	WM-185 SR-2	3CE92	INORG	Metals	7440-66-6	Zinc	6.92E+01	µg/L		
CP10120501XM	WM-184 SR-22	3CE22	INORG	Metals	7440-66-6	Zinc	2.45E+02	µg/L		
CP10120601XM	WM-184 SR-23 ^c	3CE28	INORG	Metals	7440-66-6	Zinc	1.71E+02	µg/L		
CP10120701XM	C-14 Valve Box	3CE70	INORG	Metals	7440-66-6	Zinc	6.73E+01	µg/L		
CP10120801XM	C-19 Valve Box	3CE76	INORG	Metals	7440-66-6	Zinc	3.49E+02	µg/L		

a. Extra water added during sampling to obtain sufficient volume.

b. New metals analyses run on aliquot taken from Bottle 9 of CP10120201 (Original metals aliquot from Bottle 1 failed).

c. Water added through the instrument probe while pulling sample.

d. Resample for mercury.

e. Water added to the sump while pulling the sample.

f. Additional resample for mercury.

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Table C-1. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^g	Validator Flag ^h
g. Laboratory flags:										
B = Analyte was below the required detection limit but greater than or equal to the instrument detection limit										
D = Identified in an analysis at a secondary dilution factor										
N = Percent recovery for this analyte in the matrix spike or matrix spike duplicate analyses exceeded the accuracy criteria										
U = Analyte was analyzed for but not detected										
W = Serial dilution or analytical spike not within limits.										
* = Relative percent difference between the matrix spike and matrix spike duplicate analyses exceeded the precision criteria for this analyte.										
h. Validator flags:										
J = Estimated.										
U = Undetected.										

Table C-2. Reported results for anions and pH analyses for WM-184, WM-185, and WM-186 vault sumps and C-14 and C-19 diversion valve boxes.

			Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^d	Validator Flag ^e
Field Sample ID	Sampling Location	ID									
CP10120101AN	WM-186 SR-3 ^a	3CE11	INORG	Miscellaneous	16887-00-6	Chloride	2.80	mg/L			
CP10120201AN	WM-186 SR-4	3CE17	INORG	Miscellaneous	16887-00-6	Chloride	3.50	mg/L			
CP10120301AN	WM-185 SR-1	3CE87	INORG	Miscellaneous	16887-00-6	Chloride	5.69	mg/L			
CP10120401AN	WM-185 SR-2	3CE93	INORG	Miscellaneous	16887-00-6	Chloride	4.66	mg/L			
CP10120501AN	WM-184 SR-22	3CE23	INORG	Miscellaneous	16887-00-6	Chloride	6.10	mg/L			
CP10120601AN	WM-184 SR-23 ^b	3CE29	INORG	Miscellaneous	16887-00-6	Chloride	2.45	mg/L			
CP10120701AN	C-14 Valve Box	3CE71	INORG	Miscellaneous	16887-00-6	Chloride	3.7	mg/L			
CP10120801AN	C-19 Valve Box	3CE77	INORG	Miscellaneous	16887-00-6	Chloride	2.8	mg/L			
CP10120101AN	WM-186 SR-3 ^a	3CE11	INORG	Miscellaneous	16984-48-8	Fluoride	3.07	mg/L			
CP10120201AN	WM-186 SR-4	3CE17	INORG	Miscellaneous	16984-48-8	Fluoride	15.2	mg/L			
CP10120301AN	WM-185 SR-1	3CE87	INORG	Miscellaneous	16984-48-8	Fluoride	1.18	mg/L			
CP10120401AN	WM-185 SR-2	3CE93	INORG	Miscellaneous	16984-48-8	Fluoride	5.42	mg/L			
CP10120501AN	WM-184 SR-22	3CE23	INORG	Miscellaneous	16984-48-8	Fluoride	0.49	mg/L			
CP10120601AN	WM-184 SR-23 ^b	3CE29	INORG	Miscellaneous	16984-48-8	Fluoride	0.43	mg/L			
CP10120701AN	C-14 Valve Box	3CE71	INORG	Miscellaneous	16984-48-8	Fluoride	0.12	mg/L			
CP10120801AN	C-19 Valve Box	3CE77	INORG	Miscellaneous	16984-48-8	Fluoride	0.006	mg/L	U		
CP10120101AN	WM-186 SR-3 ^a	3CE11	INORG	Miscellaneous	*NITRATE	Nitrate	0.59	mg N/L			
CP10120201AN	WM-186 SR-4	3CE17	INORG	Miscellaneous	*NITRATE	Nitrate	1.16	mg N/L			
CP10120301AN	WM-185 SR-1	3CE87	INORG	Miscellaneous	*NITRATE	Nitrate	21.9	mg N/L			
CP10120401AN	WM-185 SR-2	3CE93	INORG	Miscellaneous	*NITRATE	Nitrate	14.0	mg N/L			
CP10120501AN	WM-184 SR-22	3CE23	INORG	Miscellaneous	*NITRATE	Nitrate	10.9	mg N/L			
CP10120601AN	WM-184 SR-23 ^b	3CE29	INORG	Miscellaneous	*NITRATE	Nitrate	0.97	mg N/L			
CP10120701AN	C-14 Valve Box	3CE71	INORG	Miscellaneous	*NITRATE	Nitrate	0.98	mg N/L			
CP10120801AN	C-19 Valve Box	3CE77	INORG	Miscellaneous	*NITRATE	Nitrate	0.44	mg N/L			

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Table C-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^d	Validator Flag ^e
CP10120101PH	WM-186 SR-3 ^a	3CE12	INORG	Miscellaneous	*PH	pH	9.3	N/A		
CP10120201PH	WM-186 SR-4	3CE18	INORG	Miscellaneous	*PH	pH	8.6	N/A		
CP10120301PH	WM-185 SR-1	3CE88	INORG	Miscellaneous	*PH	pH	6.1	N/A		
CP10120401PH	WM-185 SR-2	3CE94	INORG	Miscellaneous	*PH	pH	6.2	N/A		
CP10120501PH	WM-184 SR-22	3CE24	INORG	Miscellaneous	*PH	pH	8.6	N/A		
CP10120601PH ^c	WM-184 SR-23 ^b	3CE30	INORG	Miscellaneous	*PH	pH	11.8	N/A		
CP10120602PH ^c	WM-184 SR-23	3CE30	INORG	Miscellaneous	*PH	pH	11	N/A		
CP10120701PH	C-14 Valve Box	3CE72	INORG	Miscellaneous	*PH	pH	8.7	N/A		
CP10120801PH	C-19 Valve Box	3CE78	INORG	Miscellaneous	*PH	pH	9.7	N/A		
CP10120101AN	WM-186 SR-3 ^a	3CE11	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.0087	mg P/L	U	
CP10120201AN	WM-186 SR-4	3CE17	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.0087	mg P/L	U	
CP10120301AN	WM-185 SR-1	3CE87	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.0087	mg P/L	U	
CP10120401AN	WM-185 SR-2	3CE93	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.18	mg P/L		
CP10120501AN	WM-184 SR-22	3CE23	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.042	mg P/L	U	
CP10120601AN	WM-184 SR-23 ^b	3CE29	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.042	mg P/L	U	
CP10120701AN	C-14 Valve Box	3CE71	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.32	mg P/L		
CP10120801AN	C-19 Valve Box	3CE77	INORG	Miscellaneous	*PHOSPHATE	Phosphate	0.0087	mg P/L	U	
CP10120101AN	WM-186 SR-3 ^a	3CE11	INORG	Miscellaneous	14808-79-8	Sulfate	1.48	mg/L		
CP10120201AN	WM-186 SR-4	3CE17	INORG	Miscellaneous	14808-79-8	Sulfate	3.02	mg/L		
CP10120301AN	WM-185 SR-1	3CE87	INORG	Miscellaneous	14808-79-8	Sulfate	32.6	mg/L		
CP10120401AN	WM-185 SR-2	3CE93	INORG	Miscellaneous	14808-79-8	Sulfate	30.1	mg/L		
CP10120501AN	WM-184 SR-22	3CE23	INORG	Miscellaneous	14808-79-8	Sulfate	17.7	mg/L		
CP10120601AN	WM-184 SR-23 ^b	3CE29	INORG	Miscellaneous	14808-79-8	Sulfate	7.54	mg/L		
CP10120701AN	C-14 Valve Box	3CE71	INORG	Miscellaneous	14808-79-8	Sulfate	0.63	mg/L		
CP10120801AN	C-19 Valve Box	3CE77	INORG	Miscellaneous	14808-79-8	Sulfate	0.51	mg/L		

C-14

Table C-2. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^d	Validator Flag ^e
a. Extra water added during sampling to obtain sufficient volume.										
b. Water added through instrument probe while pulling sample.										
c. CP10120601PH and CP10120602PH are duplicates (results were generated from Bottles 1 of 10 and 10 of 10, respectively).										
d. Laboratory flags:										
U = Undetected										
e. Validator flag definitions:										
J = Estimated value										
R = Rejected										
U = Undetected.										

Table C-3. Reported results for organic analyses for WM-184, WM-185, and WM-186 vault sumps and C-14 and C-19 diversion valve boxes.

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
C-16	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120601VG	WM-184SR-23 ^b	0312032-15A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	71-55-6	1,1,1-Trichloroethane	10.0	µg/L	U
	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	79-34-5	1,1,2,2-Tetrachloroethane	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	µg/L	U

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121001VG	Trip Blank	3CF14	ORG	VOC	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	79-00-5	1,1,2-Trichloroethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-34-3	1,1-Dichloroethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-34-3	1,1-Dichloroethane	10	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-34-3	1,1-Dichloroethane	10	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-35-4	1,1-Dichloroethene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-35-4	1,1-Dichloroethene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-35-4	1,1-Dichloroethene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-35-4	1,1-Dichloroethene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	120-82-1	1,2,4-Trichlorobenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	96-12-8	1,2-Dibromo-3-chloropropane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	106-93-4	1,2-Dibromoethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	95-50-1	1,2-Dichlorobenzene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	107-06-2	1,2-Dichloroethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	107-06-2	1,2-Dichloroethane	10	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	107-06-2	1,2-Dichloroethane	10	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	78-87-5	1,2-Dichloropropane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	78-87-5	1,2-Dichloropropane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	78-87-5	1,2-Dichloropropane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	78-87-5	1,2-Dichloropropane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	541-73-1	1,3-Dichlorobenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	106-46-7	1,4-Dichlorobenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	78-93-3	2-Butanone	297	µg/L	D	J
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	78-93-3	2-Butanone	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	78-93-3	2-Butanone	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	78-93-3	2-Butanone	4830	µg/L	D	J
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	78-93-3	2-Butanone	453	µg/L	D	J
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	78-93-3	2-Butanone	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
C-21	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	78-93-3	2-Butanone	10.0	µg/L	U
	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	591-78-6	2-Hexanone	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	591-78-6	2-Hexanone	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	591-78-6	2-Hexanone	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	591-78-6	2-Hexanone	10.0	µg/L	U
	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	108-10-1	4-Methyl-2-pentanone	10.0	µg/L	UJ

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
C-22	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	67-64-1	Acetone	35.2	µg/L	
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	67-64-1	Acetone	154	µg/L	
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	67-64-1	Acetone	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	67-64-1	Acetone	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	67-64-1	Acetone	2430	µg/L	D J
	CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	67-64-1	Acetone	192	µg/L	D J
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	67-64-1	Acetone	10.0	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	67-64-1	Acetone	10.0	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	67-64-1	Acetone	10.0	µg/L	U
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	67-64-1	Acetone	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	67-64-1	Acetone	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	67-64-1	Acetone	11.1	µg/L	
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	67-64-1	Acetone	10.0	µg/L	U
	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	71-43-2	Benzene	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	71-43-2	Benzene	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	71-43-2	Benzene	3.7	µg/L	J
	CP10121001VG	Trip Blank	3CF14	ORG	VOC	71-43-2	Benzene	10	µg/L	U
	CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	71-43-2	Benzene	10.0	µg/L	U
	CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	71-43-2	Benzene	10.0	µg/L	U
	CP10121401VG	Trip Blank	0405022-07	ORG	VOC	71-43-2	Benzene	10.0	µg/L	U
	CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U
	CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U
	CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-27-4	Bromodichloromethane	10	µg/L	U

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-27-4	Bromodichloromethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-27-4	Bromodichloromethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-27-4	Bromodichloromethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-25-2	Bromoform	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-25-2	Bromoform	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-25-2	Bromoform	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-25-2	Bromoform	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	74-83-9	Bromomethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	74-83-9	Bromomethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	74-83-9	Bromomethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	74-83-9	Bromomethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-15-0	Carbon disulfide	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-15-0	Carbon disulfide	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-15-0	Carbon disulfide	27.8	µg/L		
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-15-0	Carbon disulfide	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	UJ
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	UJ
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-15-0	Carbon disulfide	10.0	µg/L	U	UJ
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	56-23-5	Carbon tetrachloride	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	56-23-5	Carbon tetrachloride	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121001VG	Trip Blank	3CF14	ORG	VOC	56-23-5	Carbon tetrachloride	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	56-23-5	Carbon tetrachloride	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	108-90-7	Chlorobenzene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	108-90-7	Chlorobenzene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	108-90-7	Chlorobenzene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	108-90-7	Chlorobenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-00-3	Chloroethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-00-3	Chloroethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-00-3	Chloroethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-00-3	Chloroethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	67-66-3	Chloroform	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	67-66-3	Chloroform	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	67-66-3	Chloroform	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	67-66-3	Chloroform	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	74-87-3	Chloromethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	74-87-3	Chloromethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	74-87-3	Chloromethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	74-87-3	Chloromethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	156-59-2	cis-1,2-Dichloroethene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	10061-01-5	cis-1,3-Dichloropropene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	110-82-7	Cyclohexane	1.9	µg/L	J	J
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	110-82-7	Cyclohexane	1.0	µg/L	J	J

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	110-82-7	Cyclohexane	1.3	µg/L	J	J
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	110-82-7	Cyclohexane	10.0	µg/L	U	
CP10121010VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	108-94-1	Cyclohexanone	10.0	µg/L	U	
CP10121010VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	124-48-1	Dibromochloromethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	124-48-1	Dibromochloromethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	124-48-1	Dibromochloromethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	124-48-1	Dibromochloromethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-71-8	Dichlorodifluoromethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	141-78-6	Ethyl acetate	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	100-41-4	Ethylbenzene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	100-41-4	Ethylbenzene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	100-41-4	Ethylbenzene	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	C-30
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	100-41-4	Ethylbenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	76-13-1	Freon 113	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	98-82-8	Isopropylbenzene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	13-302-07	m,p-Xylenes	10.0	µg/L	U	
CP10120101MT ^a	WM-186 SR-3	0312032-19A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10120201MT	WM-186 SR-4	0312032-20A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10120501MT	WM-184 SR-22	0312032-21A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10120601MT ^b	WM-184 SR-23	0312032-22A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	R
CP10120701MT	C-14 Valve Box	0312032-23A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10120801MT	C-19 Valve Box	0312032-24A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10121101MT ^c	WM-185 SR-1	0405022-02A	ORG	VOC	67-56-1	Methanol	44.1	mg/L		
CP10121201MT ^c	WM-185 SR-2	0405022-05A	ORG	VOC	67-56-1	Methanol	20	mg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	79-20-9	Methyl acetate	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	C-32
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	108-87-2	Methyl cyclohexane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-09-2	Methylene Chloride	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-09-2	Methylene Chloride	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-09-2	Methylene Chloride	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-09-2	Methylene Chloride	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	95-47-6	o-Xylene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	95-47-6	o-Xylene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	95-47-6	o-Xylene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	95-47-6	o-Xylene	10.0	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	C-33
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	100-42-5	Styrene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	100-42-5	Styrene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	100-42-5	Styrene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	100-42-5	Styrene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	127-18-4	Tetrachloroethene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	127-18-4	Tetrachloroethene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	127-18-4	Tetrachloroethene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	127-18-4	Tetrachloroethene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	108-88-3	Toluene	2.0	µg/L	J	J
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	108-88-3	Toluene	10	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	108-88-3	Toluene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	108-88-3	Toluene	2.3	µg/L	J	J
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	108-88-3	Toluene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	108-88-3	Toluene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	156-60-5	trans-1,2-Dichloroethene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	10061-02-6	trans-1,3-Dichloropropene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	79-01-6	Trichloroethene	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	79-01-6	Trichloroethene	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	79-01-6	Trichloroethene	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	79-01-6	Trichloroethene	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-69-4	Trichlorofluoromethane	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-69-4	Trichlorofluoromethane	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-69-4	Trichlorofluoromethane	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-69-4	Trichlorofluoromethane	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	75-01-4	Vinyl Chloride	10	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	75-01-4	Vinyl Chloride	10	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10121001VG	Trip Blank	3CF14	ORG	VOC	75-01-4	Vinyl Chloride	10	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	75-01-4	Vinyl Chloride	10.0	µg/L	U	
CP10120101VG	WM-186 SR-3 ^a	0312032-12A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120201VG	WM-186 SR-4	0312032-13A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120501VG	WM-184 SR-22	0312032-14A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120601VG	WM-184 SR-23 ^b	0312032-15A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120701VG	C-14 Valve Box	0312032-16A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120801VG	C-19 Valve Box	0312032-17A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120901VG	Trip Blank	0312032-18A	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10121101VG	WM-185 SR-1 ^c	0405022-01	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10121201VG	WM-185 SR-2 ^c	0405022-04	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10121401VG	Trip Blank	0405022-07	ORG	VOC	1330-20-7	Xylene (Total)	10.0	µg/L	U	
CP10120301VG	WM-185 SR-1	3CF11	ORG	VOC	1330-20-7	Xylene, Isomers m&p	20	µg/L	U	
CP10120401VG	WM-185 SR-2	3CF15	ORG	VOC	1330-20-7	Xylene, Isomers m&p	20	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121001VG	Trip Blank	3CF14	ORG	VOC	1330-20-7	Xylene, Isomers m&p	20	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	92-52-4	1,1'-Biphenyl	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	92-52-4	1,1'-Biphenyl	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	92-52-4	1,1'-Biphenyl	10.3	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	120-82-1	1,2,4-Trichlorobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	120-82-1	1,2,4-Trichlorobenzene	10	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	95-50-1	1,2-Dichlorobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	95-50-1	1,2-Dichlorobenzene	10	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	541-73-1	1,3-Dichlorobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	541-73-1	1,3-Dichlorobenzene	10	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	106-46-7	1,4-Dichlorobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	106-46-7	1,4-Dichlorobenzene	10	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	108-60-1	2,2'-oxybis(1-Chloropropane)	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	95-95-4	2,4,5-Trichlorophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	88-06-2	2,4,6-Trichlorophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	120-83-2	2,4-Dichlorophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	105-67-9	2,4-Dimethylphenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.3	µg/L	U	UJ
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.5	µg/L	U	UJ
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.3	µg/L	U	UJ
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	11.1	µg/L	U	UJ
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	11.1	µg/L	U	UJ
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.0	µg/L	U	UJ
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.4	µg/L	U	UJ
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	51-28-5	2,4-Dinitrophenol	10.3	µg/L	U	UJ
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	121-14-2	2,4-Dinitrotoluene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.5	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	606-20-2	2,6-Dinitrotoluene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	91-58-7	2-Chloronaphthalene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	91-58-7	2-Chloronaphthalene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	91-58-7	2-Chloronaphthalene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	91-58-7	2-Chloronaphthalene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	91-58-7	2-Chloronaphthalene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	95-57-8	2-Chlorophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	95-57-8	2-Chlorophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	95-57-8	2-Chlorophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	95-57-8	2-Chlorophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	95-57-8	2-Chlorophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	95-57-8	2-Chlorophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	95-57-8	2-Chlorophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	95-57-8	2-Chlorophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	95-57-8	2-Chlorophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	95-57-8	2-Chlorophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.3	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	91-57-6	2-Methylnaphthalene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	91-57-6	2-Methylnaphthalene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	91-57-6	2-Methylnaphthalene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	91-57-6	2-Methylnaphthalene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	91-57-6	2-Methylnaphthalene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	95-48-7	2-Methylphenol (o-Cresol)	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	88-74-4	2-Nitroaniline	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	88-74-4	2-Nitroaniline	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	88-74-4	2-Nitroaniline	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	88-74-4	2-Nitroaniline	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	88-74-4	2-Nitroaniline	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	88-74-4	2-Nitroaniline	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	88-74-4	2-Nitroaniline	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	88-74-4	2-Nitroaniline	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	88-74-4	2-Nitroaniline	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	88-74-4	2-Nitroaniline	10.3	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	88-75-5	2-Nitrophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	88-75-5	2-Nitrophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	88-75-5	2-Nitrophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	88-75-5	2-Nitrophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	88-75-5	2-Nitrophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	88-75-5	2-Nitrophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	88-75-5	2-Nitrophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	88-75-5	2-Nitrophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	88-75-5	2-Nitrophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	88-75-5	2-Nitrophenol	10.3	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	*	3&4-methylphenol	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	*	3&4-methylphenol	20	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	91-94-1	3,3'-Dichlorobenzidine	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	99-09-2	3-Nitroaniline	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	99-09-2	3-Nitroaniline	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	99-09-2	3-Nitroaniline	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	99-09-2	3-Nitroaniline	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	99-09-2	3-Nitroaniline	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	99-09-2	3-Nitroaniline	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	99-09-2	3-Nitroaniline	11.1	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
C-43	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	99-09-2	3-Nitroaniline	10.0	µg/L	U
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	99-09-2	3-Nitroaniline	10.4	µg/L	U
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	99-09-2	3-Nitroaniline	10.3	µg/L	U
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.3	µg/L	U UJ
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.5	µg/L	U UJ
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10	µg/L	U
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10	µg/L	U
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.3	µg/L	U UJ
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	11.1	µg/L	U UJ
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	11.1	µg/L	U UJ
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.0	µg/L	U UJ
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.4	µg/L	U UJ
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	534-52-1	4,6-Dinitro-2-methylphenol	10.3	µg/L	U UJ
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.3	µg/L	U
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.5	µg/L	U
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10	µg/L	U
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10	µg/L	U
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.3	µg/L	U
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	11.1	µg/L	U
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	11.1	µg/L	U
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.0	µg/L	U
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.4	µg/L	U
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	101-55-3	4-Bromophenyl phenyl ether	10.3	µg/L	U
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.3	µg/L	U
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.5	µg/L	U
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10	µg/L	U
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10	µg/L	U
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.3	µg/L	U
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	11.1	µg/L	U

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	59-50-7	4-Chloro-3-methylphenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	106-47-8	4-Chloroaniline	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	106-47-8	4-Chloroaniline	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	106-47-8	4-Chloroaniline	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	106-47-8	4-Chloroaniline	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	106-47-8	4-Chloroaniline	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	106-47-8	4-Chloroaniline	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	106-47-8	4-Chloroaniline	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	106-47-8	4-Chloroaniline	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	106-47-8	4-Chloroaniline	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	106-47-8	4-Chloroaniline	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	7005-72-3	4-Chlorophenyl phenyl ether	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	11.1	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	106-44-5	4-Methylphenol (p-Cresol)	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	100-01-6	4-Nitroaniline	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	100-01-6	4-Nitroaniline	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	100-01-6	4-Nitroaniline	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	100-01-6	4-Nitroaniline	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	100-01-6	4-Nitroaniline	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	100-01-6	4-Nitroaniline	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	100-01-6	4-Nitroaniline	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	100-01-6	4-Nitroaniline	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	100-01-6	4-Nitroaniline	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	100-01-6	4-Nitroaniline	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	100-02-7	4-Nitrophenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	100-02-7	4-Nitrophenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	100-02-7	4-Nitrophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	100-02-7	4-Nitrophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	100-02-7	4-Nitrophenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	100-02-7	4-Nitrophenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	100-02-7	4-Nitrophenol	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	100-02-7	4-Nitrophenol	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	100-02-7	4-Nitrophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	100-02-7	4-Nitrophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	83-32-9	Acenaphthene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	83-32-9	Acenaphthene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	83-32-9	Acenaphthene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	83-32-9	Acenaphthene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	83-32-9	Acenaphthene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	83-32-9	Acenaphthene	11.1	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	83-32-9	Acenaphthene	11.1	µg/L	U	C-46
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	83-32-9	Acenaphthene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	83-32-9	Acenaphthene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	83-32-9	Acenaphthene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	208-96-8	Acenaphthylene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	208-96-8	Acenaphthylene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	208-96-8	Acenaphthylene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	208-96-8	Acenaphthylene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	208-96-8	Acenaphthylene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	208-96-8	Acenaphthylene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	208-96-8	Acenaphthylene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	208-96-8	Acenaphthylene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	208-96-8	Acenaphthylene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	208-96-8	Acenaphthylene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	98-86-2	Acetophenone ^d	1.1	µg/L	J	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	98-86-2	Acetophenone	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	98-86-2	Acetophenone	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	98-86-2	Acetophenone	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	98-86-2	Acetophenone	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	98-86-2	Acetophenone	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	98-86-2	Acetophenone	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	98-86-2	Acetophenone	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	120-12-7	Anthracene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	120-12-7	Anthracene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	120-12-7	Anthracene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	120-12-7	Anthracene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	120-12-7	Anthracene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	120-12-7	Anthracene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	120-12-7	Anthracene	11.1	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	120-12-7	Anthracene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	120-12-7	Anthracene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	120-12-7	Anthracene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	1912-24-9	Atrazine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	1912-24-9	Atrazine	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	1912-24-9	Atrazine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	1912-24-9	Atrazine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	1912-24-9	Atrazine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	1912-24-9	Atrazine	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	1912-24-9	Atrazine	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	1912-24-9	Atrazine	10.3	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	103-33-3	Azobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	103-33-3	Azobenzene	10	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	100-52-7	Benzaldehyde ^d	2.2	µg/L	J	J
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	100-52-7	Benzaldehyde	10.5	µg/L	U	UJ
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	100-52-7	Benzaldehyde	10.3	µg/L	U	UJ
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	100-52-7	Benzaldehyde	11.1	µg/L	U	UJ
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	100-52-7	Benzaldehyde	11.1	µg/L	U	UJ
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	100-52-7	Benzaldehyde	10.0	µg/L	U	UJ
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	100-52-7	Benzaldehyde	10.4	µg/L	U	UJ
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	100-52-7	Benzaldehyde	10.3	µg/L	U	UJ
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	56-55-3	Benzo(a)anthracene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	56-55-3	Benzo(a)anthracene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	56-55-3	Benzo(a)anthracene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	56-55-3	Benzo(a)anthracene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	56-55-3	Benzo(a)anthracene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	50-32-8	Benzo(a)pyrene	30	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	50-32-8	Benzo(a)pyrene	30	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	50-32-8	Benzo(a)pyrene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	50-32-8	Benzo(a)pyrene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	50-32-8	Benzo(a)pyrene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	30	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	30	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	205-99-2	Benzo(b)fluoranthene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	11.1	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	191-24-2	Benzo(g,h,i)perylene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	207-08-9	Benzo(k)fluoranthene	10.3	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	85-68-7	Benzyl butyl phthalate	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	85-68-7	Benzyl butyl phthalate	20	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	111-91-1	bis-(2-chloroethoxy)methane	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g	
C-50	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.3	µg/L	U	
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	11.1	µg/L	U	
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	11.1	µg/L	U	
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.0	µg/L	U	
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.4	µg/L	U	
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	111-44-4	bis-(2-Chloroethyl)ether	10.3	µg/L	U	
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	108-60-1	bis(2-Chloroisopropyl)ether	10	µg/L	U	
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	108-60-1	bis(2-Chloroisopropyl)ether	10	µg/L	U	
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	10.3	µg/L	U	
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	10.5	µg/L	U	
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	30	µg/L	U	
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	30	µg/L	U	
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	10.3	µg/L	U	
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	11.1	µg/L	U	
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate ^e	10.2	µg/L	J	J
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate	10.0	µg/L	U	
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate ^e	4.0	µg/L	J	J
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	117-81-7	bis-(2-ethylhexyl)phthalate ^e	3.8	µg/L	J	J
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.3	µg/L	U	
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.5	µg/L	U	
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.3	µg/L	U	
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	11.1	µg/L	U	
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	11.1	µg/L	U	
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.0	µg/L	U	
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.4	µg/L	U	
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	85-68-7	Butyl benzyl phthalate	10.3	µg/L	U	
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	105-60-2	Caprolactam	10.3	µg/L	U	UJ
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	105-60-2	Caprolactam	10.5	µg/L	U	UJ
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	105-60-2	Caprolactam	10.3	µg/L	U	UJ

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	105-60-2	Caprolactam	11.1	µg/L	U	UJ
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	105-60-2	Caprolactam	11.1	µg/L	U	UJ
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	105-60-2	Caprolactam	10.0	µg/L	U	UJ
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	105-60-2	Caprolactam	10.4	µg/L	U	UJ
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	105-60-2	Caprolactam	10.3	µg/L	U	UJ
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	86-74-8	Carbazole	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	86-74-8	Carbazole	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	86-74-8	Carbazole	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	86-74-8	Carbazole	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	86-74-8	Carbazole	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	86-74-8	Carbazole	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	86-74-8	Carbazole	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	86-74-8	Carbazole	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	86-74-8	Carbazole	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	86-74-8	Carbazole	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	218-01-9	Chrysene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	218-01-9	Chrysene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	218-01-9	Chrysene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	218-01-9	Chrysene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	218-01-9	Chrysene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	218-01-9	Chrysene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	218-01-9	Chrysene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	218-01-9	Chrysene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	218-01-9	Chrysene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	218-01-9	Chrysene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	30	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	30	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	53-70-3	Dibenzo(a,h)anthracene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	132-64-9	Dibenzofuran	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	132-64-9	Dibenzofuran	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	132-64-9	Dibenzofuran	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	132-64-9	Dibenzofuran	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	132-64-9	Dibenzofuran	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	132-64-9	Dibenzofuran	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	132-64-9	Dibenzofuran	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	132-64-9	Dibenzofuran	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	132-64-9	Dibenzofuran	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	132-64-9	Dibenzofuran	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	84-66-2	Diethyl Phthalate	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	84-66-2	Diethyl Phthalate	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	84-66-2	Diethyl Phthalate	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	84-66-2	Diethyl Phthalate	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	84-66-2	Diethyl Phthalate	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	84-66-2	Diethyl Phthalate	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	84-66-2	Diethyl Phthalate	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	84-66-2	Diethyl Phthalate	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	84-66-2	Diethyl Phthalate	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	84-66-2	Diethyl Phthalate	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	131-11-3	Dimethyl phthalate	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	131-11-3	Dimethyl phthalate	2.9	µg/L	J	J
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	131-11-3	Dimethyl phthalate	10	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	131-11-3	Dimethyl phthalate	10	µg/L	U	C-53
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	131-11-3	Dimethyl phthalate	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	131-11-3	Dimethyl phthalate	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	131-11-3	Dimethyl phthalate	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	131-11-3	Dimethyl phthalate ^e	2.8	µg/L	J	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	131-11-3	Dimethyl phthalate	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	131-11-3	Dimethyl phthalate	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	84-74-2	Di-n-butyl phthalate ^e	5.0	µg/L	J	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	84-74-2	Di-n-butyl phthalate	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	84-74-2	Di-n-butyl phthalate	90	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	84-74-2	Di-n-butyl phthalate	90	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	84-74-2	Di-n-butyl phthalate	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	84-74-2	Di-n-butyl phthalate	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	84-74-2	Di-n-butyl phthalate	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	84-74-2	Di-n-butyl phthalate ^e	2.6	µg/L	J	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	84-74-2	Di-n-butyl phthalate ^e	5.0	µg/L	J	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	84-74-2	Di-n-butyl phthalate	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.3	µg/L	U	UJ
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.5	µg/L	U	UJ
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	117-84-0	Di-n-octyl phthalate	30	µg/L	U	C-53
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	117-84-0	Di-n-octyl phthalate	30	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	117-84-0	Di-n-octyl phthalate	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	117-84-0	Di-n-octyl phthalate ^e	5.7	µg/L	J	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	117-84-0	Di-n-octyl phthalate	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	206-44-0	Fluoranthene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	206-44-0	Fluoranthene	10.5	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	206-44-0	Fluoranthene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	206-44-0	Fluoranthene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	206-44-0	Fluoranthene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	206-44-0	Fluoranthene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	206-44-0	Fluoranthene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	206-44-0	Fluoranthene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	206-44-0	Fluoranthene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	206-44-0	Fluoranthene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	86-73-7	Fluorene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	86-73-7	Fluorene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	86-73-7	Fluorene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	86-73-7	Fluorene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	86-73-7	Fluorene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	86-73-7	Fluorene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	86-73-7	Fluorene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	86-73-7	Fluorene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	86-73-7	Fluorene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	86-73-7	Fluorene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	118-74-1	Hexachlorobenzene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	118-74-1	Hexachlorobenzene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	118-74-1	Hexachlorobenzene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	118-74-1	Hexachlorobenzene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	118-74-1	Hexachlorobenzene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	118-74-1	Hexachlorobenzene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	118-74-1	Hexachlorobenzene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	118-74-1	Hexachlorobenzene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	118-74-1	Hexachlorobenzene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	118-74-1	Hexachlorobenzene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.3	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	87-68-3	Hexachlorobutadiene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	87-68-3	Hexachlorobutadiene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	87-68-3	Hexachlorobutadiene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	87-68-3	Hexachlorobutadiene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	87-68-3	Hexachlorobutadiene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	77-47-4	Hexachlorocyclopentadiene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	67-72-1	Hexachloroethane	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	67-72-1	Hexachloroethane	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	67-72-1	Hexachloroethane	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	67-72-1	Hexachloroethane	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	67-72-1	Hexachloroethane	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	67-72-1	Hexachloroethane	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	67-72-1	Hexachloroethane	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	67-72-1	Hexachloroethane	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	67-72-1	Hexachloroethane	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	67-72-1	Hexachloroethane	10.3	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	20	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	20	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.4	µg/L		U
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	193-39-5	Indeno(1,2,3-cd)pyrene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	78-59-1	Isophorone	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	78-59-1	Isophorone	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	78-59-1	Isophorone	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	78-59-1	Isophorone	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	78-59-1	Isophorone	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	78-59-1	Isophorone	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	78-59-1	Isophorone	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	78-59-1	Isophorone	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	78-59-1	Isophorone	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	78-59-1	Isophorone	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	91-20-3	Naphthalene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	91-20-3	Naphthalene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	91-20-3	Naphthalene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	91-20-3	Naphthalene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	91-20-3	Naphthalene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	91-20-3	Naphthalene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	91-20-3	Naphthalene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	91-20-3	Naphthalene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	91-20-3	Naphthalene	10.4	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	91-20-3	Naphthalene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	98-95-3	Nitrobenzene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	98-95-3	Nitrobenzene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	98-95-3	Nitrobenzene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	98-95-3	Nitrobenzene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	98-95-3	Nitrobenzene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	98-95-3	Nitrobenzene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	98-95-3	Nitrobenzene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	98-95-3	Nitrobenzene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	98-95-3	Nitrobenzene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	98-95-3	Nitrobenzene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	62-75-9	n-Nitrosodimethylamine	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	621-64-7	n-Nitrosodi-n-propylamine	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	86-30-6	n-Nitrosodiphenylamine	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	87-86-5	Pentachlorophenol	10.3	µg/L	U	UJ
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	87-86-5	Pentachlorophenol	10.5	µg/L	U	UJ
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	87-86-5	Pentachlorophenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	87-86-5	Pentachlorophenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	87-86-5	Pentachlorophenol	10.3	µg/L	U	UJ
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	87-86-5	Pentachlorophenol	11.1	µg/L	U	UJ
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	87-86-5	Pentachlorophenol	11.1	µg/L	U	UJ
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	87-86-5	Pentachlorophenol	10.0	µg/L	U	UJ
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	87-86-5	Pentachlorophenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	87-86-5	Pentachlorophenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	85-01-8	Phenanthrene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	85-01-8	Phenanthrene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	85-01-8	Phenanthrene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	85-01-8	Phenanthrene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	85-01-8	Phenanthrene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	85-01-8	Phenanthrene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	85-01-8	Phenanthrene	11.1	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	85-01-8	Phenanthrene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	85-01-8	Phenanthrene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	85-01-8	Phenanthrene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	108-95-2	Phenol	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	108-95-2	Phenol	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	108-95-2	Phenol	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	108-95-2	Phenol	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	108-95-2	Phenol	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	108-95-2	Phenol	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	108-95-2	Phenol	2.0	µg/L	J	J
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	108-95-2	Phenol	5.1	µg/L	J	J
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	108-95-2	Phenol	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	108-95-2	Phenol	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	129-00-0	Pyrene	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	129-00-0	Pyrene	10.5	µg/L	U	
CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	129-00-0	Pyrene	10	µg/L	U	
CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	129-00-0	Pyrene	10	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	129-00-0	Pyrene	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	129-00-0	Pyrene	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	129-00-0	Pyrene	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	129-00-0	Pyrene	10.0	µg/L	U	
CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	129-00-0	Pyrene	10.4	µg/L	U	
CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	129-00-0	Pyrene	10.3	µg/L	U	
CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	110-86-1	Pyridine	10.3	µg/L	U	
CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	110-86-1	Pyridine	10.5	µg/L	U	
CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	110-86-1	Pyridine	10.3	µg/L	U	
CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	110-86-1	Pyridine	11.1	µg/L	U	
CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	110-86-1	Pyridine	11.1	µg/L	U	
CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	110-86-1	Pyridine	10.0	µg/L	U	

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Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g	
C-60	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	110-86-1	Pyridine	10.4	µg/L	U	UJ
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	110-86-1	Pyridine	10.3	µg/L	U	UJ
	CP10120101SV	WM-186 SR-3 ^a	0312032-25A	ORG	SVOC	126-73-8	Tributyl phosphate	3.4	µg/L	J	J
	CP10120201SV	WM-186 SR-4	0312032-06A	ORG	SVOC	126-73-8	Tributyl phosphate	10.5	µg/L	U	
	CP10120501SV	WM-184 SR-22	0312032-07A	ORG	SVOC	126-73-8	Tributyl phosphate	10.3	µg/L	U	
	CP10120601SV	WM-184 SR-23 ^b	0312032-08A	ORG	SVOC	126-73-8	Tributyl phosphate	11.1	µg/L	U	
	CP10120701SV	C-14 Valve Box	0312032-09A	ORG	SVOC	126-73-8	Tributyl phosphate	11.1	µg/L	U	
	CP10120801SV	C-19 Valve Box	0312032-10A	ORG	SVOC	126-73-8	Tributyl phosphate	10.0	µg/L	U	
	CP10121101SV	WM-185 SR-1 ^c	0405022-03	ORG	SVOC	126-73-8	Tributyl phosphate	10.4	µg/L	U	UJ
	CP10121201SV	WM-185 SR-2 ^c	0405022-06	ORG	SVOC	126-73-8	Tributyl phosphate	10.3	µg/L	U	UJ
	CP10120301SV	WM-185 SR-1	3CF12	ORG	SVOC	126-73-8	tri-n-butyl phosphate	10	µg/L	U	
	CP10120401SV	WM-185 SR-2	3CF16	ORG	SVOC	126-73-8	tri-n-butyl phosphate	10	µg/L	U	
	CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	UJ
	CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	
	CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	12674-11-2	Aroclor-1016	8.0	µg/L	U	
	CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	12674-11-2	Aroclor-1016	8.0	µg/L	U	
	CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	
	CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	
	CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	
	CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	12674-11-2	Aroclor-1016	10	µg/L	U	
	CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	UJ
	CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	
	CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	11104-28-2	Aroclor-1221	9.0	µg/L	U	
	CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	11104-28-2	Aroclor-1221	9.0	µg/L	U	
	CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	
	CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	
	CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	
	CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	11104-28-2	Aroclor-1221	10	µg/L	U	
	CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	UJ

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	C-61
CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	11141-16-5	Aroclor-1232	9.0	µg/L	U	
CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	11141-16-5	Aroclor-1232	9.0	µg/L	U	
CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	
CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	
CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	
CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	11141-16-5	Aroclor-1232	10	µg/L	U	
CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	53469-21-9	Aroclor-1242	9.0	µg/L	U	
CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	53469-21-9	Aroclor-1242	9.0	µg/L	U	
CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	53469-21-9	Aroclor-1242	10	µg/L	U	
CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	12672-29-6	Aroclor-1248	9.0	µg/L	U	
CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	12672-29-6	Aroclor-1248	9.0	µg/L	U	
CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	12672-29-6	Aroclor-1248	10	µg/L	U	
CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	
CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	
CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	11097-69-1	Aroclor-1254	9.0	µg/L	U	
CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	11097-69-1	Aroclor-1254	9.0	µg/L	U	
CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	
CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	

Table C-3. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Type	Analysis	CAS-Number	Compound	Result	Units	Lab Flag ^f	Validator Flag ^g
CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	
CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	11097-69-1	Aroclor-1254	10	µg/L	U	
CP10120101PC	WM-186 SR-3 ^a	0312032-26A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	UJ
CP10120201PC	WM-186 SR-4	0312032-27A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	
CP10120301PC	WM-185 SR-1	3CF13	ORG	PCB	11096-82-5	Aroclor-1260	7.0	µg/L	U	
CP10120401PC	WM-185 SR-2	3CF17	ORG	PCB	11096-82-5	Aroclor-1260	7.0	µg/L	U	
CP10120501PC	WM-184 SR-22	0312032-28A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	
CP10120601PC	WM-184 SR-23 ^b	0312032-29A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	
CP10120701PC	C-14 Valve Box	0312032-30A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	
CP10120801PC	C-19 Valve Box	0312032-31A	ORG	PCB	11096-82-5	Aroclor-1260	10	µg/L	U	

a. Extra water added during sampling to obtain sufficient volume.

b. Water added through instrument probe while pulling sample.

c. Resample for analysis of volatile organic compounds and semivolatile organic compounds.

d. Compound highly suspect based on its known application in the perfume industry.

e. Reported results for phthalate compounds were deemed highly suspect and not used in this DQA. Phthalates are ubiquitous in nature and low levels are commonly assumed to be associated with laboratory contamination.

f. Laboratory flags:

D = Result is from a secondary dilution analysis

J = Estimated value

U = Undetected.

g. Validator flag definitions:

J = Estimated value

R = Rejected

U = Undetected.

Table C-4. Reported results for radionuclide analyses for WM-184, WM-185, and WM-186 vault sums and C-14 and C-19 diversion valve boxes.

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-63	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁰³ Ru	-2.96E+03	pCi/L	5.67E+03	U	1.09E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁰³ Ru	-4.65E+03	pCi/L	8.68E+03	U	1.61E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁰³ Ru	-3.39E+04	pCi/L	5.32E+04	U	7.29E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁰³ Ru	9.97E+03	pCi/L	2.61E+04	U	6.75E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁰³ Ru	9.26E+00	pCi/L	2.38E+01	U	6.36E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁰³ Ru	-4.87E+00	pCi/L	1.26E+01	U	3.42E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁰³ Ru	-1.76E+02	pCi/L	5.26E+02	U	1.49E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁰³ Ru	-3.00E+02	pCi/L	5.60E+02	U	1.04E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁰⁶ Ru	3.03E+04	pCi/L	4.78E+04	U	6.57E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁰⁶ Ru	-5.11E+04	pCi/L	7.68E+04	U	9.44E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁰⁶ Ru	4.65E+04	pCi/L	1.42E+05	U	3.98E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁰⁶ Ru	-5.14E+04	pCi/L	1.42E+05	U	3.74E+05
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁰⁶ Ru	1.10E+02	pCi/L	2.23E+02	U	4.65E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁰⁶ Ru	-3.89E+01	pCi/L	1.13E+02	U	3.27E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁰⁶ Ru	-1.17E+03	pCi/L	3.76E+03	U	1.10E+04
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁰⁶ Ru	-2.98E+03	pCi/L	5.16E+03	U	8.35E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	^{108m} Ag	1.00E+00	pCi/L	3.30E+03	U	1.18E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	^{108m} Ag	-1.73E+04	pCi/L	2.26E+04	U	1.74E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	^{108m} Ag	4.59E+03	pCi/L	2.21E+04	U	7.43E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	^{108m} Ag	-3.28E+04	pCi/L	5.03E+04	U	6.78E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	^{108m} Ag	2.09E+01	pCi/L	3.80E+01	U	7.11E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	^{108m} Ag	-2.43E+00	pCi/L	1.03E+01	U	3.61E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	^{108m} Ag	4.32E+01	pCi/L	4.22E+02	U	1.64E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	^{108m} Ag	1.55E+02	pCi/L	4.15E+02	U	1.10E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	^{110m} Ag	-1.02E+03	pCi/L	1.86E+03	U	3.47E+03

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
C-64	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	^{110m} Ag	-8.40E+02	pCi/L	1.96E+03	U 4.74E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	^{110m} Ag	-1.96E+03	pCi/L	5.24E+03	U 1.42E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	^{110m} Ag	7.09E+02	pCi/L	3.62E+03	U 1.31E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	^{110m} Ag	1.59E+01	pCi/L	2.72E+01	U 4.50E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	^{110m} Ag	2.12E+01	pCi/L	3.30E+01	U 4.46E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	^{110m} Ag	1.59E+02	pCi/L	4.01E+02	U 1.05E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	^{110m} Ag	-3.18E+02	pCi/L	5.62E+02	U 9.87E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹²⁵ Sb	3.87E+04	pCi/L	5.53E+03	3.45E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹²⁵ Sb	3.65E+04	pCi/L	1.20E+04	4.38E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹²⁵ Sb	3.48E+02	pCi/L	5.23E+04	U 2.24E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹²⁵ Sb	6.37E+04	pCi/L	1.15E+05	U 2.05E+05
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹²⁵ Sb	1.27E+02	pCi/L	1.87E+02	U 2.18E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹²⁵ Sb	4.69E+01	pCi/L	7.70E+01	U 1.12E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹²⁵ Sb	6.13E+02	pCi/L	1.79E+03	U 4.94E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹²⁵ Sb	-8.51E+02	pCi/L	1.65E+03	U 3.25E+03
	CP10120101X5	WM-186 SR-3 ^a	01TQ-01-A	RADS	Specific Analysis	¹²⁹ I	3.64E+01	pCi/L	1.20E+01	J 4.08E+01
	CP10120201X5	WM-186 SR-4	01TQ-02-A	RADS	Specific Analysis	¹²⁹ I	6.10E+01	pCi/L	1.06E+01	J 3.00E+01
	CP10120301X5	WM-185 SR-1	01TQ-03-A	RADS	Specific Analysis	¹²⁹ I	1.96E+02	pCi/L	1.52E+01	2.18E+01
	CP10120401X5	WM-185 SR-2	01TQ-04-A	RADS	Specific Analysis	¹²⁹ I	1.17E+02	pCi/L	1.78E+01	J 4.78E+01
	CP10120501X5	WM-184 SR-22	01TQ-05-A	RADS	Specific Analysis	¹²⁹ I	9.06E-01	pCi/L	3.36E-01	UJ 1.16E+00
	CP10120601X5	WM-184 SR-23 ^b	01TQ-06-A	RADS	Specific Analysis	¹²⁹ I	1.60E-01	pCi/L	2.69E-01	U 1.04E+00
	CP10120701X5	C-14 Valve Box	01TQ-07-A	RADS	Specific Analysis	¹²⁹ I	7.45E+01	pCi/L	7.47E+00	1.50E+01
	CP10120801X5	C-19 Valve Box	01TQ-08-A	RADS	Specific Analysis	¹²⁹ I	5.15E+00	pCi/L	7.15E-01	J 1.83E+00
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹³⁴ Cs ^c	4.54E+04	pCi/L	3.65E+03	6.30E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹³⁴ Cs ^c	9.77E+04	pCi/L	6.76E+03	9.22E+03

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
C-65	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹³⁴ Cs	-4.11E+04	pCi/L	5.40E+04	U 4.15E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹³⁴ Cs	1.65E+04	pCi/L	2.63E+04	U 3.82E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹³⁴ Cs	3.04E+00	pCi/L	1.49E+01	U 5.31E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹³⁴ Cs	9.13E-02	pCi/L	7.80E+00	U 3.41E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹³⁴ Cs	1.22E+00	pCi/L	2.78E+02	U 1.12E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹³⁴ Cs	9.73E+02	pCi/L	1.29E+03	U 9.83E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹³⁷ Cs	4.15E+07	pCi/L	2.92E+06	5.76E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹³⁷ Cs	9.13E+07	pCi/L	6.00E+06	8.25E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹³⁷ Cs	1.64E+08	pCi/L	1.26E+07	3.47E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹³⁷ Cs	1.39E+08	pCi/L	1.08E+07	3.17E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹³⁷ Cs	1.10E+04	pCi/L	1.40E+03	7.30E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹³⁷ Cs	9.87E+02	pCi/L	9.37E+01	6.28E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹³⁷ Cs	6.54E+05	pCi/L	5.45E+04	1.06E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹³⁷ Cs	2.34E+05	pCi/L	1.96E+04	9.17E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁴⁴ Ce	-2.11E+04	pCi/L	3.30E+04	U 4.47E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁴⁴ Ce	9.02E+03	pCi/L	2.43E+04	U 6.43E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁴⁴ Ce	4.30E+03	pCi/L	6.71E+04	U 2.77E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁴⁴ Ce	1.25E+04	pCi/L	7.17E+04	U 2.58E+05
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁴⁴ Ce	-1.04E+02	pCi/L	1.99E+02	U 3.74E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁴⁴ Ce	-6.95E+01	pCi/L	1.30E+02	U 2.36E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁴⁴ Ce	-2.67E+03	pCi/L	4.52E+03	U 7.17E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁴⁴ Ce	2.55E+03	pCi/L	4.15E+03	U 6.07E+03
	CP10120101X5	WM-186 SR-3 ^a	01TQ-01-A	RADS	Specific Analysis	¹⁴ C	9.35E+00	pCi/L	4.94E+00	U 1.61E+01
	CP10120201X5	WM-186 SR-4	01TQ-02-A	RADS	Specific Analysis	¹⁴ C	-9.50E+00	pCi/L	4.76E+00	U 1.60E+01
	CP10120301X5	WM-185 SR-1	01TQ-03-A	RADS	Specific Analysis	¹⁴ C	-5.21E+00	pCi/L	4.78E+00	U 1.61E+01

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-66	CP10120401X5	WM-185 SR-2	01TQ-04-A	RADS	Specific Analysis	¹⁴ C	-5.10E+00	pCi/L	4.75E+00	U	1.59E+01
	CP10120501X5	WM-184 SR-22	01TQ-05-A	RADS	Specific Analysis	¹⁴ C	-2.04E+00	pCi/L	4.80E+00	U	1.60E+01
	CP10120601X5	WM-184 SR-23 ^b	01TQ-06-A	RADS	Specific Analysis	¹⁴ C	-9.44E+00	pCi/L	4.76E+00	U	1.60E+01
	CP10120701X5	C-14 Valve Box	01TQ-07-A	RADS	Specific Analysis	¹⁴ C	-4.84E+00	pCi/L	4.79E+00	U	1.61E+01
	CP10120801X5	C-19 Valve Box	01TQ-08-A	RADS	Specific Analysis	¹⁴ C	-1.44E+00	pCi/L	4.82E+00	U	1.61E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁵² Eu	4.59E+03	pCi/L	1.14E+04	U	2.93E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁵² Eu	-4.90E+03	pCi/L	1.48E+04	U	4.30E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁵² Eu	-5.39E+04	pCi/L	9.81E+04	U	1.84E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁵² Eu	-1.31E+04	pCi/L	5.16E+04	U	1.68E+05
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁵² Eu	-2.70E+01	pCi/L	7.25E+01	U	1.93E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁵² Eu	-4.16E+00	pCi/L	2.91E+01	U	1.12E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁵² Eu	9.18E+02	pCi/L	1.95E+03	U	4.38E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁵² Eu	-9.01E+02	pCi/L	1.63E+03	U	3.00E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁵⁴ Eu	4.53E+05	pCi/L	3.60E+04		5.51E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁵⁴ Eu	7.55E+04	pCi/L	7.36E+03		7.21E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁵⁴ Eu	1.29E+04	pCi/L	2.04E+04	U	2.93E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁵⁴ Eu	1.00E+05	pCi/L	1.13E+04		2.41E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁵⁴ Eu	-9.67E+00	pCi/L	2.80E+01	U	8.42E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁵⁴ Eu	1.62E+01	pCi/L	3.76E+01	U	9.33E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁵⁴ Eu	4.11E+03	pCi/L	5.10E+02		2.89E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁵⁴ Eu	5.74E+03	pCi/L	6.46E+02		2.90E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	¹⁵⁵ Eu	9.46E+04	pCi/L	1.30E+04		2.27E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	¹⁵⁵ Eu	1.81E+04	pCi/L	2.77E+04	U	3.50E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	¹⁵⁵ Eu	5.13E+04	pCi/L	8.99E+04	U	1.50E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	¹⁵⁵ Eu	2.07E+04	pCi/L	5.43E+04	U	1.40E+05

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
C-67	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	¹⁵⁵ Eu	8.23E+01	pCi/L	1.39E+02	U 2.10E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	¹⁵⁵ Eu	1.64E+01	pCi/L	4.73E+01	U 1.29E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	¹⁵⁵ Eu	1.14E+03	pCi/L	2.16E+03	U 4.01E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	¹⁵⁵ Eu	9.96E+01	pCi/L	8.29E+02	U 3.21E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	²²⁶ Ra ^d	-1.09E+04	pCi/L	5.60E+04	U 1.88E+05
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	²²⁶ Ra ^d	2.61E+05	pCi/L	6.07E+05	U 2.75E+05
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	²²⁶ Ra ^d	1.06E+06	pCi/L	2.54E+06	UJ 1.18E+06
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	²²⁶ Ra ^d	6.40E+06	pCi/L	5.47E+05	1.57E+06
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	²²⁶ Ra ^d	4.45E+02	pCi/L	1.79E+03	U 1.61E+03
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	²²⁶ Ra ^d	2.82E+01	pCi/L	7.71E+02	U 1.05E+03
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	²²⁶ Ra ^d	-4.41E+03	pCi/L	1.74E+04	U 2.91E+04
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	²²⁶ Ra ^d	-1.08E+04	pCi/L	1.63E+04	U 2.32E+04
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²³⁴ U	1.63E+02	pCi/L	5.20E+01	1.05E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²³⁴ U	9.13E+00	pCi/L	1.30E+01	U 1.24E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²³⁴ U	-1.65E+01	pCi/L	2.82E+01	U 1.53E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²³⁴ U	8.05E+02	pCi/L	2.74E+02	J 1.27E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁴ U	3.97E+01	pCi/L	5.78E+01	U 5.61E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁴ U	1.12E+01	pCi/L	1.79E+01	U 3.55E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²³⁴ U	2.73E+01	pCi/L	1.55E+01	U 2.11E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²³⁴ U	1.35E+02	pCi/L	4.89E+01	J 2.17E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²³⁵ U	4.88E+01	pCi/L	2.35E+01	J 1.32E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²³⁵ U	0.00E+00	pCi/L	0.00E+00	U 1.56E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²³⁵ U	8.73E+01	pCi/L	1.37E+02	U 2.14E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²³⁵ U	0.00E+00	pCi/L	0.00E+00	U 6.97E+01
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁵ U	6.41E+00	pCi/L	1.06E+01	U 4.71E+01

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-68 89	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁵ U	4.36E+00	pCi/L	7.21E+00	U	4.25E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²³⁵ U	0.00E+00	pCi/L	0.00E+00	U	1.39E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²³⁵ U	6.12E+00	pCi/L	9.60E+00	U	1.66E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	²³⁵ U ^d	-6.61E+02	pCi/L	3.40E+03	U	1.14E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	²³⁵ U ^d	1.57E+04	pCi/L	3.66E+04	U	1.65E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	²³⁵ U ^d	6.39E+04	pCi/L	1.54E+05	UJ	7.12E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	²³⁵ U ^d	3.88E+05	pCi/L	3.29E+04		9.55E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	²³⁵ U ^d	4.23E+01	pCi/L	1.40E+02	U	9.74E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	²³⁵ U ^d	3.79E+00	pCi/L	5.10E+01	U	6.31E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	²³⁵ U ^d	-6.26E+02	pCi/L	1.07E+03	U	1.75E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	²³⁵ U ^d	-3.94E+02	pCi/L	9.81E+02	U	1.41E+03
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁶ U	-6.10E+00	pCi/L	1.05E+01	U	5.61E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁶ U	-4.33E+00	pCi/L	7.42E+00	U	4.02E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²³⁷ Np	1.29E+02	pCi/L	1.83E+01		5.38E+00
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²³⁷ Np	3.57E+01	pCi/L	1.08E+01		1.66E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²³⁷ Np	1.36E+02	pCi/L	1.93E+02	U	2.89E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²³⁷ Np	1.81E+02	pCi/L	2.61E+02	U	4.56E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁷ Np	0.00E+00	pCi/L	0.00E+00	U	5.11E+00
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁷ Np	3.65E+00	pCi/L	5.47E+00	U	1.58E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²³⁷ Np	1.03E+01	pCi/L	1.34E+01	U	1.36E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²³⁷ Np	8.76E-01	pCi/L	1.36E+00	U	2.86E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²³⁸ Pu	2.33E+05	pCi/L	3.85E+04		7.48E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²³⁸ Pu	2.33E+05	pCi/L	3.85E+04		7.48E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²³⁸ Pu	7.78E+04	pCi/L	1.24E+04		1.37E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²³⁸ Pu	5.32E+06	pCi/L	8.10E+05		2.51E+02

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
C-69	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁸ Pu	-8.43E-01	pCi/L	1.40E+00	U 7.08E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁸ Pu	2.67E+01	pCi/L	4.07E+01	U 5.73E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²³⁸ Pu	2.50E+04	pCi/L	4.30E+03	4.14E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²³⁸ Pu	4.13E+03	pCi/L	7.86E+02	3.76E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²³⁸ U	2.71E+01	pCi/L	1.50E+01	U 1.05E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²³⁸ U	0.00E+00	pCi/L	0.00E+00	U 1.24E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²³⁸ U	-6.60E+00	pCi/L	1.13E+01	U 1.20E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²³⁸ U	-5.84E+00	pCi/L	9.93E+00	U 1.06E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²³⁸ U	1.12E+01	pCi/L	1.80E+01	U 3.49E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²³⁸ U	0.00E+00	pCi/L	0.00E+00	U 1.17E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²³⁸ U	0.00E+00	pCi/L	0.00E+00	U 1.10E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²³⁸ U	9.72E+00	pCi/L	1.40E+01	U 1.32E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	^{239/240} Pu	1.12E+04	pCi/L	2.03E+03	5.48E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	^{239/240} Pu	1.12E+04	pCi/L	2.03E+03	5.48E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	^{239/240} Pu	7.50E+03	pCi/L	1.44E+03	1.37E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	^{239/240} Pu	4.74E+05	pCi/L	7.44E+04	1.57E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	^{239/240} Pu	-1.01E+01	pCi/L	1.72E+01	U 6.83E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	^{239/240} Pu	3.82E+00	pCi/L	6.23E+00	U 3.55E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	^{239/240} Pu	1.04E+03	pCi/L	2.28E+02	2.90E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	^{239/240} Pu	1.64E+02	pCi/L	5.15E+01	2.35E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²⁴¹ Am	2.55E+04	pCi/L	3.82E+03	2.88E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²⁴¹ Am	3.00E+03	pCi/L	5.21E+02	4.78E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²⁴¹ Am	1.58E+03	pCi/L	4.26E+02	1.93E+02
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²⁴¹ Am	3.84E+04	pCi/L	6.78E+03	2.13E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²⁴¹ Am	-1.21E+01	pCi/L	2.08E+01	U 4.35E+01

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-70	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²⁴¹ Am	1.51E+01	pCi/L	2.39E+01	U	5.64E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²⁴¹ Am	1.49E+03	pCi/L	3.20E+02		9.66E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²⁴¹ Am	4.64E+02	pCi/L	1.07E+02		1.03E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	²⁴¹ Am	1.29E+04	pCi/L	2.62E+04	U	5.41E+04
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	²⁴¹ Am	7.58E+04	pCi/L	9.77E+04	U	7.66E+04
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	²⁴¹ Am	1.40E+05	pCi/L	2.24E+05	U	3.27E+05
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	²⁴¹ Am	4.27E+04	pCi/L	1.16E+05	U	3.04E+05
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	²⁴¹ Am	4.09E+01	pCi/L	1.26E+02	U	3.25E+02
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	²⁴¹ Am	-3.03E+01	pCi/L	8.34E+01	U	2.21E+02
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	²⁴¹ Am	-3.07E+02	pCi/L	2.20E+03	U	8.19E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	²⁴¹ Am	-1.51E+03	pCi/L	3.07E+03	U	6.37E+03
	CP10120101X4	WM-186 SR-3 ^a	0312032-01	RADS	Specific Analysis	²⁴¹ Pu	7.66E+05	PCI/L	2.14E+04	J	1.57E+04
	CP10120201X4	WM-186 SR-4	0312032-02	RADS	Specific Analysis	²⁴¹ Pu	6.36E+04	PCI/L	1.85E+03	J	1.43E+03
	CP10120301X4	WM-185 SR-1	01TQ-09	RADS	Specific Analysis	²⁴¹ Pu	8.77E+04	pCi/L	4.81E+03	J	6.01E+03
	CP10120401X4	WM-185 SR-2	01TQ-10	RADS	Specific Analysis	²⁴¹ Pu	1.64E+05	pCi/L	8.09E+03	J	5.94E+03
	CP10120501X4	WM-184 SR-22	0312032-03	RADS	Specific Analysis	²⁴¹ Pu	8.81E+01	PCI/L	1.37E+01	J	2.46E+02
	CP10120601X4	WM-184 SR-23 ^b	0312032-04	RADS	Specific Analysis	²⁴¹ Pu	2.00E+02	PCI/L	1.71E+01	J	2.89E+02
	CP10120701X4	C-14 Valve Box	0312032-05	RADS	Specific Analysis	²⁴¹ Pu	1.70E+04	PCI/L	4.76E+02	J	2.58E+02
	CP10120801X4	C-19 Valve Box	0312032-11	RADS	Specific Analysis	²⁴¹ Pu	6.17E+03	PCI/L	1.74E+02	J	2.51E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²⁴² Cm ^c	6.80E+01	pCi/L	2.56E+01	J	1.70E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²⁴² Cm	0.00E+00	pCi/L	0.00E+00	U	9.35E+00
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²⁴² Cm	0.00E+00	pCi/L	0.00E+00	U	4.64E+01
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²⁴² Cm	-2.69E+00	pCi/L	4.47E+00	U	8.42E+01
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²⁴² Cm	-1.54E+00	pCi/L	2.57E+00	U	2.17E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²⁴² Cm	0.00E+00	pCi/L	0.00E+00	U	9.68E+00

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
C-71	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²⁴² Cm	3.14E+01	pCi/L	2.22E+01	U 2.84E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²⁴² Cm	3.70E+00	pCi/L	5.68E+00	U 1.00E+01
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Alpha Emitters	²⁴⁴ Cm	2.20E+03	pCi/L	3.94E+02	1.70E+01
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Alpha Emitters	²⁴⁴ Cm	2.96E+02	pCi/L	7.24E+01	1.54E+01
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Alpha Emitters	²⁴⁴ Cm	3.43E+01	pCi/L	4.82E+01	U 4.64E+01
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Alpha Emitters	²⁴⁴ Cm	4.20E+02	pCi/L	1.56E+02	J 1.25E+02
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Alpha Emitters	²⁴⁴ Cm	0.00E+00	pCi/L	0.00E+00	U 1.04E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Alpha Emitters	²⁴⁴ Cm	0.00E+00	pCi/L	0.00E+00	U 9.68E+00
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Alpha Emitters	²⁴⁴ Cm	4.19E+01	pCi/L	2.63E+01	U 2.84E+01
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Alpha Emitters	²⁴⁴ Cm	1.48E+01	pCi/L	9.44E+00	U 1.00E+01
	CP10120101R8	WM-186 SR-3 ^a	3CE14	RADS	Specific Analysis	³ H	1.17E+03	pCi/L	3.98E+01	UJ 5.29E+02
	CP10120201R8	WM-186 SR-4	3CE20	RADS	Specific Analysis	³ H	4.03E+03	pCi/L	4.89E+01	J 5.34E+02
	CP10120301R8	WM-185 SR-1	3CE90	RADS	Specific Analysis	³ H	1.15E+04	pCi/L	6.62E+01	J 5.95E+00
	CP10120401R8	WM-185 SR-2	3CE96	RADS	Specific Analysis	³ H	1.88E+04	pCi/L	7.91E+01	5.94E+00
	CP10120501R8	WM-184 SR-22	3CE26	RADS	Specific Analysis	³ H	2.74E+03	pCi/L	4.53E+01	J 5.34E+02
	CP10120601R8	WM-184 SR-23 ^b	3CE32	RADS	Specific Analysis	³ H	1.23E+03	pCi/L	4.04E+01	J 5.31E+02
	CP10120701R8	C-14 Valve Box	3CE74	RADS	Specific Analysis	³ H	1.03E+03	pCi/L	4.03E+01	UJ 5.35E+02
	CP10120801R8	C-19 Valve Box	3CE80	RADS	Specific Analysis	³ H	1.69E+03	pCi/L	4.21E+01	UJ 5.33E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁵⁴ Mn	8.11E+02	pCi/L	2.38E+03	U 2.57E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁵⁴ Mn	4.34E+02	pCi/L	1.83E+03	U 3.64E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁵⁴ Mn	6.73E+03	pCi/L	9.58E+03	U 1.08E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁵⁴ Mn	5.41E+03	pCi/L	8.06E+03	U 1.04E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁵⁴ Mn	1.02E+01	pCi/L	1.91E+01	U 3.66E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁵⁴ Mn	-2.76E+00	pCi/L	9.11E+00	U 2.91E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁵⁴ Mn	4.87E+02	pCi/L	1.35E+03	U 9.02E+02

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-72	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁵⁴ Mn	-1.16E+02	pCi/L	3.19E+02	U	8.19E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁵⁸ Co	1.59E+00	pCi/L	7.01E+02	U	2.62E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁵⁸ Co	1.59E+00	pCi/L	9.39E+02	U	3.75E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁵⁸ Co	8.24E+01	pCi/L	2.35E+03	U	1.06E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁵⁸ Co	7.55E+02	pCi/L	2.95E+03	U	1.00E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁵⁸ Co	5.14E+00	pCi/L	1.25E+01	U	3.22E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁵⁸ Co	9.54E-01	pCi/L	7.53E+00	U	3.10E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁵⁸ Co	3.14E+01	pCi/L	1.93E+02	U	7.57E+02
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁵⁸ Co	9.68E+01	pCi/L	2.53E+02	U	7.03E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁶⁰ Co	7.06E+04	pCi/L	5.71E+03		1.44E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁶⁰ Co	1.86E+04	pCi/L	1.95E+03		1.09E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁶⁰ Co	1.33E+04	pCi/L	1.73E+04	UJ	1.34E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁶⁰ Co	1.09E+04	pCi/L	1.25E+03		9.16E+03
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁶⁰ Co	9.29E+00	pCi/L	1.79E+01	U	3.64E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁶⁰ Co	3.97E+00	pCi/L	1.16E+01	U	3.53E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁶⁰ Co	4.72E+02	pCi/L	1.39E+03	U	1.06E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁶⁰ Co	-3.98E+02	pCi/L	8.32E+02	U	9.14E+02
	CP10120101X4	WM-186 SR-3 ^a	0312032-01	RADS	Specific Analysis	⁶³ Ni	1.09E+05	PCI/L	9.25E+03		6.25E+01
	CP10120201X4	WM-186 SR-4	0312032-02	RADS	Specific Analysis	⁶³ Ni	2.83E+04	PCI/L	2.38E+03		5.96E+01
	CP10120301X4	WM-185 SR-1	01TQ-09	RADS	Specific Analysis	⁶³ Ni	2.83E+04	pCi/L	2.50E+03		6.35E+03
	CP10120401X4	WM-185 SR-2	01TQ-10	RADS	Specific Analysis	⁶³ Ni	1.36E+04	pCi/L	2.13E+03		6.40E+03
	CP10120501X4	WM-184 SR-22	0312032-03	RADS	Specific Analysis	⁶³ Ni	2.75E+01	PCI/L	1.37E+01	UJ	4.49E+01
	CP10120601X4	WM-184 SR-23 ^b	0312032-04	RADS	Specific Analysis	⁶³ Ni	4.08E+01	PCI/L	1.48E+01	UJ	4.71E+01
	CP10120701X4	C-14 Valve Box	0312032-05	RADS	Specific Analysis	⁶³ Ni	4.39E+02	PCI/L	4.37E+01		4.81E+01
	CP10120801X4	C-19 Valve Box	0312032-11	RADS	Specific Analysis	⁶³ Ni	8.18E+01	PCI/L	1.75E+01		4.95E+01

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f	
C-73	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁶⁵ Zn	-7.06E+02	pCi/L	1.90E+03	U	5.18E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁶⁵ Zn	-6.23E+02	pCi/L	2.00E+03	U	6.02E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁶⁵ Zn	4.20E+01	pCi/L	4.81E+03	U	2.06E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁶⁵ Zn	-2.23E+04	pCi/L	2.96E+04	U	2.25E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁶⁵ Zn	-8.98E+00	pCi/L	2.32E+01	U	6.46E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁶⁵ Zn	-8.43E+00	pCi/L	2.19E+01	U	6.14E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁶⁵ Zn	-3.55E+01	pCi/L	4.51E+02	U	1.93E+03
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁶⁵ Zn	-1.26E+03	pCi/L	1.74E+03	U	1.64E+03
	CP10120101X4	WM-186 SR-3 ^a	0312032-01	RADS	Specific Analysis	⁹⁰ Sr	3.14E+07	PCI/L	5.15E+04	J	2.81E+03
	CP10120201X4	WM-186 SR-4	0312032-02	RADS	Specific Analysis	⁹⁰ Sr	3.54E+07	PCI/L	5.26E+04		2.58E+03
	CP10120301X4	WM-185 SR-1	01TQ-09	RADS	Specific Analysis	⁹⁰ Sr	3.27E+07	pCi/L	9.52E+05	J	2.27E+04
	CP10120401X4	WM-185 SR-2	01TQ-10	RADS	Specific Analysis	⁹⁰ Sr	3.40E+07	pCi/L	9.92E+05	J	2.17E+04
	CP10120501X4	WM-184 SR-22	0312032-03	RADS	Specific Analysis	⁹⁰ Sr	1.06E+03	PCI/L	5.74E+01		2.83E+03
	CP10120601X4	WM-184 SR-23 ^b	0312032-04	RADS	Specific Analysis	⁹⁰ Sr	-1.52E+03	PCI/L	8.39E+01	U	3.06E+03
	CP10120701X4	C-14 Valve Box	0312032-05	RADS	Specific Analysis	⁹⁰ Sr	3.69E+05	PCI/L	4.79E+03		2.54E+03
	CP10120801X4	C-19 Valve Box	0312032-11	RADS	Specific Analysis	⁹⁰ Sr	9.93E+04	PCI/L	2.33E+03		2.56E+03
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁹⁴ Nb	7.07E+04	pCi/L	4.83E+03		2.50E+03
	CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁹⁴ Nb	5.57E+03	pCi/L	5.56E+02	J	3.11E+03
	CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁹⁴ Nb	-3.77E+03	pCi/L	6.28E+03	U	1.00E+04
	CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁹⁴ Nb	1.19E+04	pCi/L	2.09E+03		1.11E+04
	CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁹⁴ Nb	2.49E-01	pCi/L	7.68E+00	U	3.41E+01
	CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁹⁴ Nb	1.26E+01	pCi/L	2.05E+01	U	2.97E+01
	CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁹⁴ Nb	2.65E+01	pCi/L	1.97E+02	U	7.76E+02
	CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁹⁴ Nb	1.35E+00	pCi/L	1.92E+02	U	8.00E+02
	CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁹⁵ Nb	1.53E+00	pCi/L	6.40E+02	U	2.64E+03

Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁹⁵ Nb	2.12E+03	pCi/L	3.11E+03	U	3.87E+03
CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁹⁵ Nb	4.09E+03	pCi/L	6.87E+03	U	1.13E+04
CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁹⁵ Nb	4.95E+03	pCi/L	7.90E+03	U	1.18E+04
CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁹⁵ Nb	1.47E-01	pCi/L	7.21E+00	U	3.33E+01
CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁹⁵ Nb	-8.13E+00	pCi/L	1.53E+01	U	2.90E+01
CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁹⁵ Nb	3.52E+02	pCi/L	5.33E+02	U	8.99E+02
CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁹⁵ Nb	1.52E+02	pCi/L	3.30E+02	U	7.68E+02
CP10120101X3	WM-186 SR-3 ^a	3CE13	RADS	Gamma Emitters	⁹⁵ Zr ^c	3.39E+04	pCi/L	4.07E+03		4.37E+03
CP10120201X3	WM-186 SR-4	3CE19	RADS	Gamma Emitters	⁹⁵ Zr	2.32E+03	pCi/L	4.01E+03	U	6.96E+03
CP10120301X3	WM-185 SR-1	3CE89	RADS	Gamma Emitters	⁹⁵ Zr	-3.39E+03	pCi/L	7.74E+03	U	1.88E+04
CP10120401X3	WM-185 SR-2	3CE95	RADS	Gamma Emitters	⁹⁵ Zr	5.97E+03	pCi/L	1.07E+04	U	1.93E+04
CP10120501X3	WM-184 SR-22	3CE25	RADS	Gamma Emitters	⁹⁵ Zr	1.97E-01	pCi/L	1.27E+01	U	5.88E+01
CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Gamma Emitters	⁹⁵ Zr	1.57E+01	pCi/L	2.89E+01	U	5.26E+01
CP10120701X3	C-14 Valve Box	3CE73	RADS	Gamma Emitters	⁹⁵ Zr	1.51E+02	pCi/L	4.77E+02	U	1.46E+03
CP10120801X3	C-19 Valve Box	3CE79	RADS	Gamma Emitters	⁹⁵ Zr	1.12E+02	pCi/L	4.09E+02	U	1.34E+03
CP10120101EA	WM-186 SR-3 ^a	3CE15	RADS	ICP-MS ^g	⁹⁹ Tc	1.82E+02	pCi/L			
CP10120201EA	WM-186 SR-4	3CE21	RADS	ICP-MS ^g	⁹⁹ Tc	5.31E+02	pCi/L			
CP10120301EA	WM-185 SR-1	3CE91	RADS	ICP-MS ^g	⁹⁹ Tc	9.33E+03	pCi/L			
CP10120401EA	WM-185 SR-2	3CE97	RADS	ICP-MS ^g	⁹⁹ Tc	1.08E+04	pCi/L			
CP10120501EA	WM-184 SR-22	3CE27	RADS	ICP-MS ^g	⁹⁹ Tc	2.74E+01	pCi/L		U	
CP10120601EA	WM-184 SR-23 ^b	3CE33	RADS	ICP-MS ^g	⁹⁹ Tc	1.87E+01	pCi/L		U	
CP10120701EA	C-14 Valve Box	3CE75	RADS	ICP-MS ^g	⁹⁹ Tc	4.41E+01	pCi/L		U	
CP10120801EA	C-19 Valve Box	3CE81	RADS	ICP-MS ^g	⁹⁹ Tc	9.11E+01	pCi/L		U	
CP10120501X3	WM-184 SR-22	3CE25	RADS	Specific Analysis	gross alpha	5.53E+01	pCi/L	5.07E+01	U	2.32E+02
CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Specific Analysis	gross alpha	1.03E+01	pCi/L	4.50E+01	UJ	2.31E+02

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Table C-4. (continued).

Field Sample ID	Sampling Location	Lab Sample ID	Analysis Type	Analysis	Compound	Result	Units	Uncertainty	Validator Flag ^e	MDA ^f
CP10120501X3	WM-184 SR-22	3CE25	RADS	Specific Analysis	gross beta	1.22E+04	pCi/L	2.94E+02		2.83E+02
CP10120601X3	WM-184 SR-23 ^b	3CE31	RADS	Specific Analysis	gross beta	1.16E+03	pCi/L	1.06E+02		2.82E+02

a. Extra water added during sampling to obtain sufficient volume.

b. Water added through the instrument probe while pulling sample.

c. Radionuclide result is a short half-life isotope and is known not to be present due to the age of the tank wastes. The reported result is a false positive. ^{134}Cs (2 years), ^{242}Cm (162.8 days) ^{95}Zr (64 days)

d. Results reported for this radionuclide by gamma spectrometry are subject to interference (Storms 2004).

e. Validator flags:

J = Estimated value

U = Analyte was analyzed for but not detected.

f. MDA = Minimum detectable activity.

g. ICP-MS = Inductively coupled plasma-mass spectrometry.